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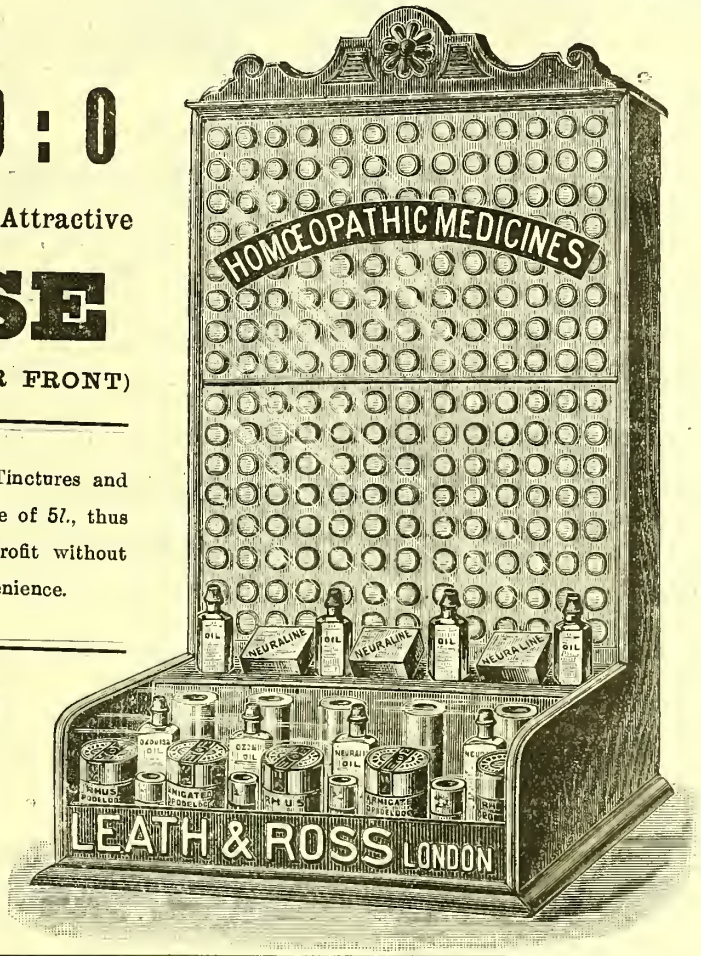

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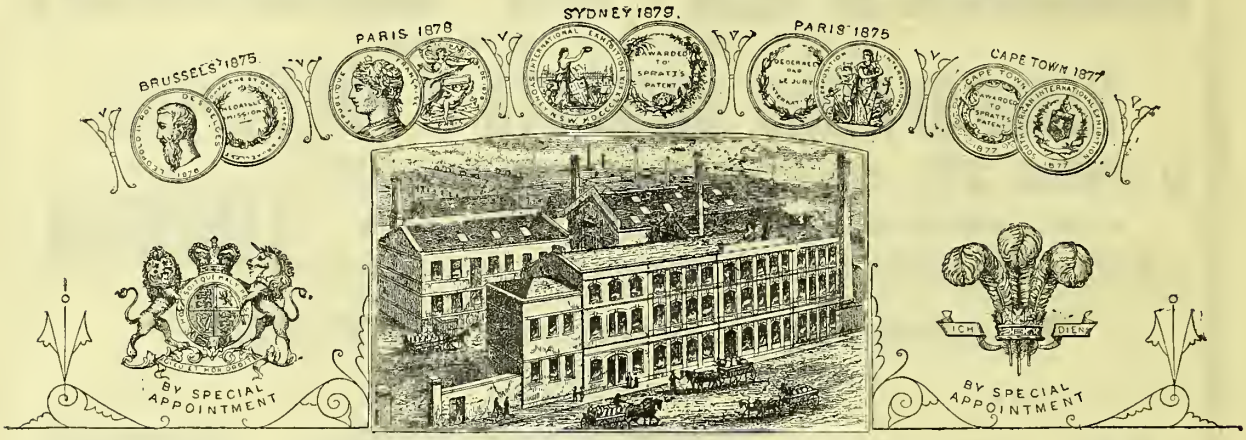

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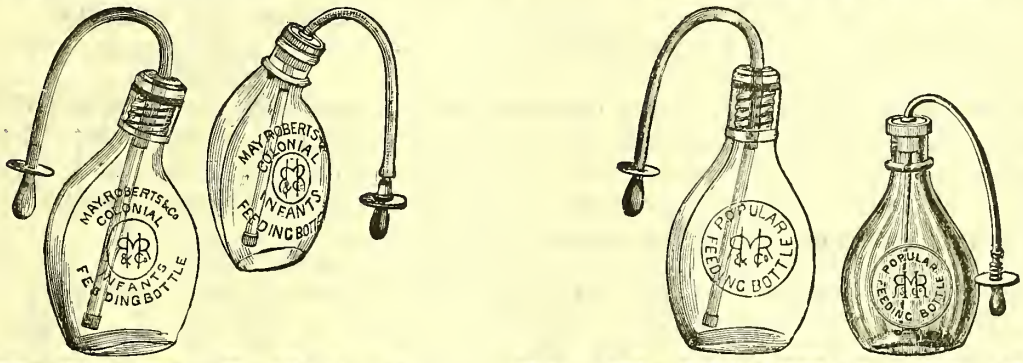

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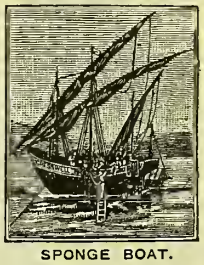

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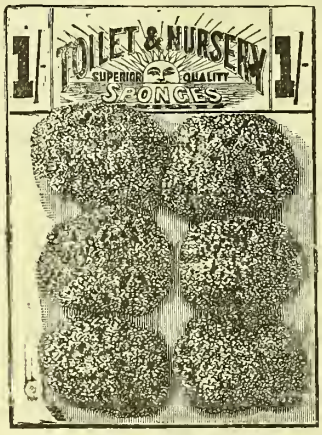

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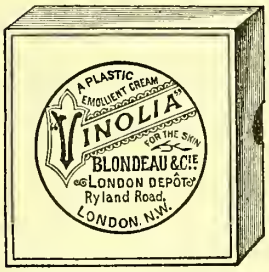

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Mr. BAXENDALE passed both the Minor and the Major Examinations from this School at the first attempt.

1891.—Mr. H. A. D. JOWETT won a Bell Scholarship, taking first place, and this year Mr. JOWETT has taken the Pereira Medal, and been awarded the Redwood Scholarship under the altered regulations.

1889.—Mr. E. B. SHERLOCK won the Redwood Scholarship, and the following year took the Percira Medal.

1387.—Mr. W. A. SALTER won a Bell Scholarship, and became Pereira Medallist the next year.

1384.—Mr. J. E. SAUL (a member of the London Board of Examiners) passed the Minor Examination from here, and in 1885 won the Pereira Medal.

It is thus seen that four of the last eight Pereira Medallists received their early training at the Liverpool School of Pharmacy, and Mr. Baxendale has achieved a rare success in taking one of the Council prizes from "the Square" men.

The Session began on Monday, September 5, 1892.

A copy of the New Syllabus, illustrated and containing full particulars of the Classes, Time-tables, and Fees, with Pass Lists, will be sent post-free on application to the Principal.

UNIVERSITY OF EDINBURGH.

PRELIMINARY EXAMINATION FOR DEGREES IN MEDICINE, &c.

Under the new Ordinance regulating the course of Study and the Examinations for DEGREES in MEDICINE and SURGERY, which has now received the approval of Her Majesty in Council, and will come into operation on 1st October next, all Students before beginning Medical Studies are required to pass a Preliminary Examination in—(1) English, (2) Latin, (3) Elementary Mathematics (comprising Arithmetic, Geometry, and Algebra), and (4) either Greek or French or German. In the case of a Candidate whose native language is not English, an Examination in the Native Language of the Candidate may be substituted for one in either French or German, and an Examination in any other classical language for one in Latin or Greek. The entire Examination must be passed at one and the same time; but Candidates for the Examination in October, 1892, will be entitled to all the exemptions in respect of previous Examinations by other bodies which have been already published in the UNIVERSITY CALENDAR.

The Standard of the Examination for next October will be the same as announced in the UNIVERSITY CALENDAR for 1892-93. The Examination will take place on 4th OCTOBER and three following days, at 9 A.M., and Names of Candidates must be entered at the Matriculation Office *on or before* 26th SEPTEMBER.

Candidates appearing for the Examination for the first time in October next each pay a fee of 10*s.* 6*d.*, and for any future Examination a fee of 10*s.* 6*d.* Matriculation does not now exempt from payment of this fee.

Candidates who begin Medical Studies next Session must in other respects comply with the provisions of the new Ordinance.

The Examination for First-Year Bursaries in the Faculty of Medicine will be the same as for the Preliminary Examination indicated above.

Information as to Matriculation, the Curriculum for Graduation, and Examinations for Fellowships, Scholarships, Bursaries, Prizes, &c., may be obtained at the Matriculation Office, or from the Dean of the Faculty of Medicine. Full details regarding these are given in the UNIVERSITY CALENDAR, published by Mr. James Thin, 55 South Bridge, Edinburgh.

JOHN KIRKPATRICK, Secretary of Senatus.

1892.

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The Fees payable by Non-Associate Students are—£2 for each separate Course of Lectures, £1 for half course of Experimental Physics, or £10 for all the Lecture Courses of a Faculty, for the Session.

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FOR PHYSICAL LABORATORY—£1 per month (one hour a day); £2 for a special course of one month; £3 per month for six hours a day; or £6 for the Session (one hour per day).

FOR ASSAYING—£5 for three months, £9 for six months, £12 for the entire Session.

FOR ZOOLOGICAL LABORATORY—£2 for a Special Course of one month; £3 for 1st Medical or 2nd Arts Course Royal University of Ireland; or £5 for a Special Course of three months.

FOR BOTANICAL LABORATORY—Same as Zoological Laboratory.

FOR GEOLOGICAL LABORATORY.—£2 for a Special Course of one month.

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Physics, Theoretical and Practical	Professor W. F. BARRETT, F.R.S.E., M.R.I.A.
Geology	Professor G. A. J. COLE, F.G.S. (Dean of Faculty for Session).
Mining and Mineralogy	Professor J. P. O'REILLY, C.E., M.R.I.A.
Botany	Professor T. JOHNSON, D.Sc., F.L.S.
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Programmes may be obtained on application at the College, or by letter addressed to the Secretary, Royal College of Science, Stephen's Green, Dublin.

The first term of the Session will commence on Monday, Oct. 3, 1892.

Note.—Intending Associate Students will be required to pass an Entrance Examination in Elementary Mathematics and Elementary Practical Geometry, as indicated on page 5 *of Programme, copies of which may be had on application from the Secretary.* Professor J. P. O'REILLY, Secretary.

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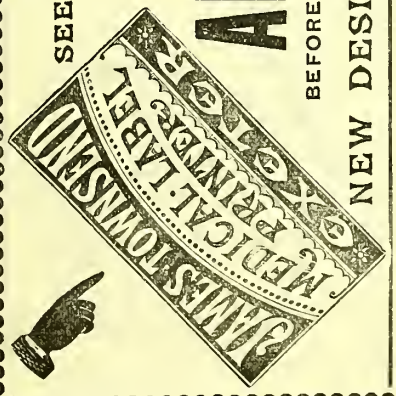

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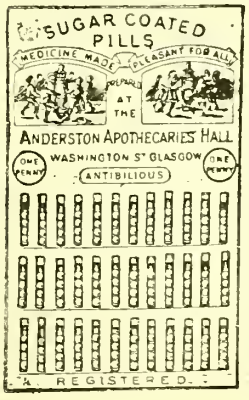

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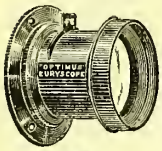

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The Aperture is F/6. The Lenses are of Special Optical Glass, constructed with the nicest precision of curvature, so maintaining good marginal definition, coupled with the most extreme rapidity.

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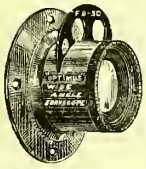

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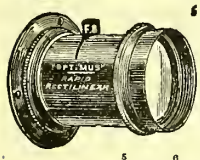

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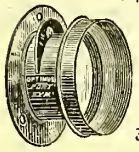

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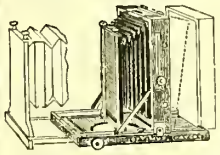

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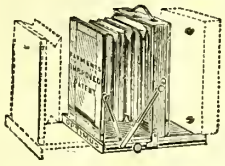

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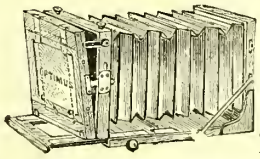

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The Chemist and Druggist, 1830 to 1888, complete. what offers? Wilkinson, Chemist, Keighley.

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Wills' "Materia Medica Illustrated Manual," price 4*s*. Crook, The Dispensary, New Swindon.

Formula.

Recipe for making brass polish; post free, 1*s*. Seymour Pollock, 312 Vauxhall Bridge Road, London.

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Fourteen lbs. halm, 14 lbs. hyssop, 7 lbs. comfrey leaves, what offers? Elliott, Chemist, Southport.

Old chamomiles (2 small bales); offers invited. 157/26, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

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Showcases, window-carboys, shop-rounds for sale. Gatward & Wright, The Medical Hall, Yeovil.

Several iron and composition pestles and mortars, under value. 157/26, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

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Second-hand mahogany counters, plate glass cases in front, 6 ft. 5*l*, 9 ft. 8*l*., 10 ft. 9*l*., 12 ft. 10*l*. Natali, 40 Gray's Inn Road, London, W.C.

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Second-hand mahogany dispensing-screen, glass tablets and plate-glass doors, 4 ft. 70*s*., 5 ft. 85*s*., 6 ft. 5*l*. Natali, 40 Gray's Inn Road, London, W.C.

Second-hand counter-cases, 4 ft. 60*s*., 6 ft. 75*s*., 6 ft. 90*s*., 7 ft. 110*s*., 8 ft. 120*s*., 10 ft. 170*s*. Natali, 40 Gray's Inn Road, London, W.C.

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Twelve ft. range of drawers, with cut-glass knobs and glass labels, lockers, and shelving complete, 12*l*. 10*s*.; dispensing-screen, 6 ft. long, mirror centre, 6*l*. 10*s*.; glass-fronted counter, 5*l*.; desk and case, 50*s*.; also a lot of other second-hand fittings, very cheap. Philip Josephs, 54 Old Street, Goswell Road, London, E.C.

Sixty dozen gold-labelled bottles, from 6 to 60 oz., second-hand, 6/6 per doz.; 8 4-gallon globe-shaped carboys, 7*s*. each; specie-jars, with Royal and other arms, from 15*s*. each; soda-water stand, as Maw's fig. 7 (new list), marble top, 50*s*.; mahogany dental cabinet, 7 drawers, 25*s*.; brass pillar-scales, pill-machine, mortars, jars, and a quantity of other fittings and utensils. Elkanah Natali, 242 Old Street (12 doors from City Road), London, E.C.

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Specie-jar, labelled, 15*s*.; shop-jars, mahogany stands, single gun, various sizes plate glass and plate-glass shelves, medical books, 12 years' *Chemist and Druggist*, lamp and irons for outside shop; lists sent. 112 High Street, South Woolwich.

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Allen's "Commercial Organic Analysis," vols. i. and ii. Möller, 43 Snow Hill, London, E.C.

Remsen's "Organic Chemistry," Muter's "Analytical Chemistry." Dunbar, Royal Infirmary, Manchester.

Dentist's show-case, about 17 in. high, 7 in. wide, 4 in. deep, improved; state particulars. Bakes, Chemist, Givlington, Bradford.

"Selecta Prescriptis"; Garrod's "Materia Medica"; Bentley's "Botany"; Attfield's "Chemistry." Thomas, 94 Cotham Brow, Bristol.

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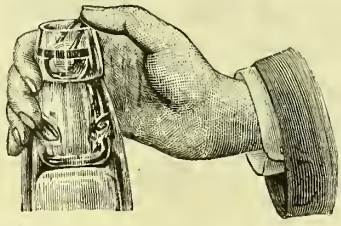

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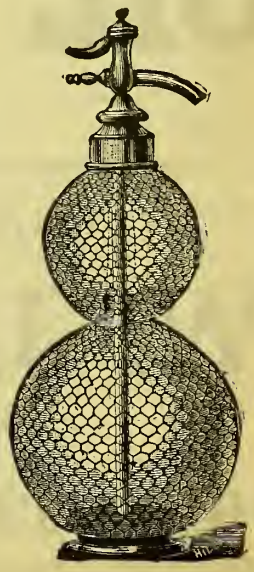

The Chemist and Druggist

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SATURDAY, SEPT. 24, 1892.

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Situations Wanted.
Miscellaneous.

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1.—**LONDON, S.W.**—Old-established Dispensing and Retail, situate in a good middle-class locality; returns £1,100 yearly, *with good profit*; the shop is handsomely fitted, and good house; purchase may be made either by valuation or lump sum; about £900 required.

2.—**LONDON. E.**—Old-established Business; retail and proprietary articles; returns £1,300, all cash and profitable; handsomely-fitted shop, and very good house; about £1,200 required; full investigation invited.

3.—**LONDON, S.W.**—Retail and Family Business, situate in a main road; returns about £600 yearly; more than ordinarily profitable; well-fitted shop and good stock; very good 10-roomed house, held on lease; good warehouse and nice garden; about £400 required.

4.—**LONDON (Suburb), N.**—Very good-class Dispensing and Retail Business; well-fitted shop; returns between £500 and £525; *profit about one-third*; price £500.

5.—**LONDON, N.**—Ready-money Retail and Dispensing; returns about £500 yearly, with Post Office attached; Post Office pays rent; the *profits are very good*; some excellent proprietary articles are included; house contains 6 rooms and kitchen; rent low, on lease; price about £500.

6.—**LONDON, S.E.**—The proprietor of an old-established Business is retiring from business, and desirous of disposing of the Pharmacy as a going concern; well situate in a main road; will furnish full particulars at an interview; about £500 would be required; reference to leading wholesale houses.

7.—**LONDON SUBURB (near Crystal Palace).**—Prescribing and Family Retail; receipts about £500 yearly, *very profitable*; corner shop, well fitted; small house, rent very low; price about £375.

8.—**LINCOLNSHIRE.**—Large business centre; an Agricultural Dispensing, and Prescribing Business; present returns at rate of £1,300; *profits about* £400; large double-fronted shop, well-fitted and stocked; good house and warehouse, at very moderate rental; price required £500.

9.—**SEASIDE (South).**—Old-established Business, situate in main street of a favourite health resort; returns £450; good Proprietary included; large well-fitted shop; house has 13 or 14 rooms; price £400.

10.—**SEASIDE (East Coast).**—Large old-established well-fitted Pharmacy, with Post Office; corner shop; returns about £450, *all very profitable*, at full prices; superior house, easily let off; price £400.

11.—**SOUTH COAST.**—Business, established many years, held by vendor 8 years; returns about £800 yearly; well fitted shop, attractive in appearance, and very good and well-selected stock; comfortable house, rent moderate; valuation and small premium only required; climate well suited to an invalid.

12.—**MIDLAND COUNTY.**—Retail and Dispensing business; returns nearly £800 yearly, *profits nearly one-third after paying all expenses*; comfortable house, low rental, held on lease; very good warehouse and nice sized garden; price £800.

13.—**CROYDON.**—Dispensing and Retail business; well situated; returns £600 yearly, all good business; well-fitted shop and good working stock; comfortable 9-roomed house, held on lease, very moderate rental (garden and conservatory); price about £500.

14.—**KENT.**—Small Retail business situate in a very good-class locality; returns about £275, *very profitable*; pushing man can much increase this; house has 5 rooms and shop with garden, rent very low; price about £200.

Particulars of any of the above will be furnished on application.

N.B.—NO CHARGE TO PURCHASERS.

Other Businesses, Town and Country. Particulars free on application. Personal applicants receive Messrs. O. & Co.'s direct attention and advice, where required, free.

TERMS FOR VALUATION ON APPLICATION. APPOINTMENTS BY POST OR WIRE HAVE IMMEDIATE ATTENTION.

Messrs. ORRIDGE & Co. invite communications from COLONIAL and FOREIGN firms where business of a confidential nature requires the especial attention of a London Agent.

NOTICE.—*Messrs. ORRIDGE & CO. have a large number of Businesses for Sale, suitable for Gentlemen with Small Capital. Full particulars on application.*

ORRIDGE & CO., 32 Ludgate Hill, LONDON, E.C.

F. J. BRETT,
VALUER, LEICESTER,
60 St. Stephen's Road.

References to principal London and Provincial Wholesale Houses, also to numerous clients throughout the United Kingdom.

BUSINESSES THOROUGHLY INVESTIGATED FOR BUYERS. 20 YEARS' EXPERIENCE.

NO CHARGE TO BUYERS

STOCKTAKING UNNECESSARY.—Stocktaking is always dreaded by Chemists, and with a competent Valuer is not necessary.

F. J. BRETT is prepared to estimate or to value entire stocks as they stand with little or no inconvenience to ordinary business, and has repeatedly done so with entire satisfaction to those adopting this mode.

STOCKS AND FIXTURES BOUGHT FOR CASH.

LINCOLNSHIRE.—Good-class Retail in prosperous market town, returning about £1,100; valuation about £700. **CARDIFF.**—Light Retail, Prescribing, and Dispensing, with appointment worth £65 per annum; price £400. **DERBY.**—Branch Retail; returns £500; profitable; price £325. **WARWICKSHIRE.**—Unopposed Retail; returns over £850; net profit £300; price £700, part of which can remain. **STAFFS.**—Unopposed Retail; prettily-fitted shop; returns £500; rent £17; valuation about £350. **YORKS.**—Returns £1,000; Retail, Prescribing, and own specialities; agency (no trouble) £26 per annum; valuation about £500.

MESSRS. BERDOE & CO.
CHEMISTS' TRANSFER AGENTS & VALUERS,
30 JEWRY STREET, ALDGATE, E.C.
Established 1870.

VALUATIONS and TRANSFERS conducted in any part of the United Kingdom. Over 20 years' practical experience.

NO CHARGE TO PURCHASERS.

1.—**KENT COAST.**—Retail and Dispensing Business; returns £1,200; occupying a splendid position in fashionable and rising watering-place; for sale under exceptional circumstances; price £600.

2.—**LINCOLNSHIRE.**—Good market town; Retail, Dispensing and Prescribing Business; returns £1,100; good house; capital position in main street; price £50, goodwill and valuation.

3.—**SOMERSET.**—Old-established Retail and Dispensing Business, with Stationery attached; returns £1,400; same hands 30 years; retiring; good house; price £1,000 or valuation.

4.—**SOUTH MIDLANDS.**—Death Vacancy.—Country Retail, Dispensing, and Prescribing Business; returns £600, under manager; good house and garden; same hands 10 years; price £350.

5.—**ISLE OF MAN.**—Retail, Dispensing, and Prescribing Business; returns £550 under management; rent low; good house; net profit £200; price £400; no qualification necessary.

6.—**HOME COUNTY** (30 miles north of London).—Retail and Dispensing Business; returns £900; elegantly fitted, heavily stocked; business admits of increase; price £750.

7.—**CHESHIRE.**—Good class Light Retail, Dispensing, and Prescribing Business; returns £450; net profit £200; low rent; good house and garden; taken larger concern; price £325.

8.—**BUCKINGHAMSHIRE.**—Select Retail and Dispensing Business in pretty locality; returns £600; net profit over £200; low rent; good house; price £200 cash, balance by instalments.

9.—**LONDON, S.E.**—Retail and Dispensing Business; very few Patents; returns £1,100; net profit £400, after paying all expenses; very handsome shop; capital position; valuation arranged.

10.—**LONDON, N.**—Death vacancy.—Retail, Dispensing, and Prescribing Business; returns £637; net profit £230; corner shop, well fitted and stocked; good house; price £450, or offer.

Having a large number of Businesses on our Register it is impossible to advertise all. Purchasers may obtain information regarding others, either by personal application or by letter, stating requirements.

Messrs. Berdoe & Co., 30 Jewry Street, Aldgate, E.C.

BUSINESSES FOR DISPOSAL.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

AN old-established Drug Business, Nottingham, with or without Hilbey's Agency; good opportunity for pushing man; no reasonable offer refused; owner retiring. 159/24, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

FOR disposal, with immediate possession, old-established Chemist's Business, with Wines, Spirits and Beer Agency in good market town in Radnorshire; stock and fixtures at valuation; returns about £1,500. Apply, Oldbury, Knighton.

CHEMIST and Druggist's Light Retail Dispensing and Prescribing Business for immediate sale, in good town near Manchester, making good returns and large profits; no heavy trade. Apply, "Prescriber," J. Woolley, Sons & Co., Manchester.

A GOOD Retail, Prescribing, and Agricultural Business; market town in Lincolnshire, all newly fitted; well stocked; death in family reason for disposal; next door to Post-office; opposite Corn Exchange. Particulars of A. C. Farmer, Chemist, Spilsby.

Messrs. CROCKER & CO.
Trade Valuers, Transfer Agents, and Accountants,
15 WALBROOK, E.C.,

Have at the present time a large number of inquiries for good-class Country Businesses, and they invite communications from intending vendors. **NO CHARGE IS MADE UNLESS A SALE IS EFFECTED.**

FASHIONABLE INLAND TOWN.—A first-class Retail and Dispensing Business, with good house; price £600.

LONDON.—Good Prescribing and family trade; returning over £1,000 and increasing; rent £84.

ON THE BANKS OF THE THAMES.—Old-established Retail and Dispensing; returns £800; price £750; scope for increase.

LONDON, N.—Good-class Retail, Dispensing, and Prescribing; returns £700; handsome pharmacy and good house; price £500.

HOME COUNTY.—30 miles out.—Good-class Country Business; returns £800; profits £300 after paying all expenses; price £700.

LONDON, S.E. (Suburb).—Near Crystal Palace; Light Retail and Dispensing; returns £500; price £400; very handsome pharmacy.

NO CHARGE TO PURCHASERS.

VALUATIONS A SPECIALITY. TERMS ON APPLICATION.

BUSINESSES FOR DISPOSAL—Continued.

COUNTRY Chemist's Prescribing and General Retail, with Gilbey Agency and P.O., with several good proprietary articles; full prices; no opposition for miles; established many years; good opening for Dentistry. C. Edwards, Post Office, Great Chell, Stoke-on-Trent.

CHEMIST and Druggist Business to be disposed of; satisfactory reason for leaving; no qualified chemist within five miles; population about 2,000; stock and fixtures all at £100—a bargain. For further particulars address, "Polo," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

DEATH Vacancy.—A good-class Country Business, with Fancy Stationery attached; average returns for last 6 years over £1,100; good profits; capital house and garden; rent low; death of proprietor sole reason of sale. Address, W., c/o Evans, Lescher & Webb, Bartholomew Close, London.

ISLE OF MAN.—Light Retail, Dispensing, and Prescribing; returns for last 8 months £390 as a branch; good house; excellent opening for Dentistry; with personal attention this can be much improved; price £400, about value of stock and fixtures. F. J. Brett, Valuer, 60 St. Stephens Road, Leicester.

FOR immediate disposal, in the rising port of Goole, a Mixed Drug and Light Grocery Business; established over 40 years; returns for the last 5 years averaging over £1,900 per annum; sole reason for disposal, the proprietress retiring into private life. Particulars to Lofthouse & Saltmer, Market Place, Hull.

BURTON-ON-TRENT.—A capital Drug Business can be bought on most favourable terms to the purchaser; General, Retail, and Prescribing; good stand, good house; no goodwill; rent moderate, lease if desired; returns about £700; profits very good; satisfactory reasons for disposal. Apply, Thomas Otley, Chemist, Burton-on-Trent.

DERBYSHIRE.—An exceptionally good opportunity offers of securing a good-class Light Retail and Dispensing Business, owner leaving the retail; returns £750, with a net annual profit of £300; low rent, good house, corner position; price to immediate purchaser £520, for which full value is offered. "Zinci," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

GENUINE Retail Drug Business for sale; established 20 years ago by present proprietor, who is retiring from retail; long lease, as lock-up shop, or with house; 10 minutes from London Bridge, Surrey side; thickly populated; very brisk ready-money drug trade, with two or three good proprietary lines. Address, "Practical Chemist," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

GOOD-CLASS Retail, Dispensing, and Prescribing Business, country; nearly £600 returns, increasing; profit £20 a month; must be sold under exceptional circumstances at low price, on easy terms if required; well stocked and attractively fitted shop; good house, long lease; strictest investigation invited. "Aloes," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

CAPITAL ready-money Business; manufacturing town; returns steadily increasing; £1,500 last 12 months under manager; wine license; good saleable stock; first-rate opening for a young man, especially if he understands Dentistry; good dwelling-house; satisfactory reasons for disposal; price £750; part could remain on loan. 148/25, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TO Chemists and Veterinary Surgeons.—For sale a genuine Mixed Business, in central position of pleasant market town in wealthy agricultural district; an excellent opportunity for pushing man; a Veterinary Surgeon would find this an exceptional opening, being only one practice within a radius of 9 miles; good shop and house, warehouses, and stable. M. P. H., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

BUSINESSES FOR DISPOSAL—Continued.

IN one of the leading towns in the West of England.—A first-class Light Retail. Prescribing Business, with Wines and Spirits; returns have averaged £1,900 for last 3 years; handsomely fitted; good stock; large house; valuation only. Address, N. M., 62 Crescent Road, Reading.

IMMEDIATELY; no reasonable offer refused; suit beginner; established 12 months; principal, having another business, cannot give it attention; 8-roomed house; large population; no opposition; rent £34; only requires seeing to sell. Address, "Aurantii," 184 Dalston Lane, London, N.E.

£200.—Small Business, for which £200 will be accepted if sold immediately; good opening for Dentistry; premises can be purchased if desired, the greater part of price for which may be left on mortgage; suitable for an energetic Chemist capable of Prescribing. "Chemist," Clarence Terrace, Silverhill, St. Leonards.

BUSINESSES WANTED.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

ADVERTISER wishes to purchase a genuine Chemist's Business in a good provincial town; price must not exceed £1,000. Address full particulars to "Chemist," c/o Messrs. Andros & Co., Valuers, 62 Ship Street, Brighton.

WANTED, a genuine Retail Business in South of England or Midlands; returning £700 to £1,200; only bona-fide concerns entertained; cash ready. Full particulars in strict confidence to E. H., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

A GOOD-CLASS Retail and Dispensing Business wanted; seaside preferred; returning from £1,000 to £2,000, or smaller one entertained if well situated and capable of increase; none with post-office entertained; please give full particulars in strict confidence. "Pharmacist," 90 Shaftesbury Road, Hammersmith, W.

ADVERTISER, who has just returned from the Continent, is desirous of purchasing a good-class Retail and Dispensing Business in some pleasant residential locality; will pay cash down up to £2,000 to secure a suitable business. Send full particulars in confidence, to "Major," care of Messrs. Edwards & Son, 157 Queen Victoria Street, E.C.

WANTED, Mixed Prescribing Business, with Grocery and general trade; large village not within 8 miles of a large town; must have convenient premises, with stabling, outhouses, and garden; state population and nearest opposition; bonus for introduction to good opening. Address, 159/27, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, a thoroughly genuine Retail and Dispensing Business in London or large provincial town, or a Partnership in a first-class establishment, with a view to succession; £2,000 cash ready; agricultural and mining district businesses declined; none but offers of sound concerns will be entertained; fullest investigation required. Address, T. H. T., 27 Stratford Road, Kensington, W.

SALE BY AUCTION.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

SMALL compact Toilet Soap Plant, suit Chemist making Specialities, will be SOLD by AUCTION at the premises as below, on Monday next, 26th inst., at 11 o'clock. Includes upright Boiler, Cased Pan, Honchin Soap-cutter, Honchin Stamping-machine, Brass Moulds, &c. P. Gelston & Co., 93 Oxford Road, Manchester.

TENDERS.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

FOR Sale by Tender, three current going Businesses, two of which are in Newcastle and one on Tyneside; all in prominent positions and well established. Full particulars on application to Box 159, Post Office, Newcastle-on-Tyne.

A SPLENDID opening occurs at No. 10 Hatton Garden, Holborn; shop all newly fitted in modern style, with bottles, drugs, and small stock complete; electric light can be added; immediate attention necessary; business been established 7 years; rent low. 158/33, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

FITTING, Fixtures, and Utensils of a Chemist's shop, also some surplus stock. Apply, Titley & Co., Chemists, Goodge Street, W.

PARTNERSHIPS.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

PARTNERSHIP.—Wholesale Drug Trade.—A good business man can invest from £1,000 to £2,000 in a small but growing firm of Manufacturing Chemists. V. C., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

PARTNERSHIP wanted (working), in small good-class business, where owner wishes to be relieved of greater part of work; or as Manager with view to succession; where there is good opening for Dentistry preferred; in London; married; aged 32. Address, "Progress," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

PARTNER wanted: qualified man, with £100, to extend Drug Store, situate prominent position, main thoroughfare, London, S.E.; or would sell outright; the returns average £6 weekly, showing almost one-half profit, trade being chiefly Prescribing with fair amount Dispensing; references given and required. Letters only to "Patents," c/o Edwards & Son, 157 Queen Victoria Street, E.C.

FOR SALE.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

OWING to the death of an Analytical Chemist, in Liverpool, the Stock, Fixtures, and Goodwill of Laboratory are offered for sale. Apply, Thornton & Co., 12 Great George Street, Liverpool.

TO Chemists and Druggists.—For sale, 4 elegant Dispensing Screens; 20 Nests of Druggists' Drawers with glass labels, crystal knobs; splendid Wall Case in Mahogany; 4 magnificent Druggists' Bent Counter Show Cases; Window Enclosures; a number of Carboys; only suitable for a first-class shop; to be sacrificed, also the entire Fittings of a first-class Chemist's Shop to be sold in one lot. Edwards & Fothergill, Old Haymarket, Liverpool.

TO LET.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

WORKSOP, NOTTS.

TO CHEMICAL MANUFACTURERS AND OTHERS.—To be LET, on Yearly Tenancy, or for a Term of Years, from Michaelmas, 1892, with or without option of purchase,

All those well-established and Valuable MANUFACTURING PREMISES, including Engines, Boilers, Retorts, Condensers, Pumps, Tanks, and other Trade Fixtures, with Workshops, Offices, &c., which have been used for many years past for Manufacturing Wood Acid, its Compounds, and other Chemicals.

The raw materials required consist chiefly of wood refuse, and Worksop being the centre of an extensive timber-growing district, and of the timber-sawing and wood-turning industries, a great advantage is thus afforded.

The works are situate at Worksop, in close proximity to large collieries, and to the Chesterfield and Stockwith Canal, and are connected with the main line of the M. S. & L. Railway by means of a siding.

Also a capital modern-built RESIDENCE near to the Works, with Gardens, Stables, and other convenient out-offices thereto.

And also 13 a. 3 r. 7 p. of LAND, inclusive of the sites of the works and residence.

For particulars and leave to view, apply to.

J. HASLAM, Esq.,
Sept., 1892. Newcastle Estate Office, Worksop.

CHEMIST'S, in a good position close to the Strand, shop to let; the fixtures to be taken at valuation; rooms if required. Apply, on the premises, 9 New Street, Covent Garden.

TO Let, Business Premises, with usual outhouses; commanding position, main road; splendid opening; no opposition; population over 3,000, with large villages around. Full particulars of A. Haynes, Gorse Hill, Swindon.

AN old-established Chemist's Business, in a market town in Bedfordshire—closed at present—to Let; has been a Chemist's for over 50 years; good opening for a Dentist also; Gilbey's Agency; double-front, and lately re-fitted. Apply to E. M. Harrison, Swan Hotel, Biggleswade, Beds.

SITUATIONS OPEN.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

WANTED, a Junior Assistant, at once. Apply, stating age, height, and salary required, J. Ingall, Ashford, Kent.

IMPROVER or Junior for Mixed Light Retail trade. State age, salary (outdoors), &c., Griffiths, Kidsgrove, Staffs.

ASSISTANT, indoors, not under 23 years of age; to save time state all particulars. Lancaster & Co., 8 High Street, Croydon.

FIRST week in October, an Assistant, accustomed to good-class Retail and Dispensing. Apply, stating age, height, salary, and references, to Tenison Smith, Ryde.

IMMEDIATELY, a qualified Junior, of good address, in a high-class Dispensing and Family Retail business; indoors. Thomas Brothers, College Pharmacy, Cheltenham.

JUNIOR or Improver, accustomed to good-class Retail and Dispensing business. Apply, with full particulars, C.B., c/o Messrs. Evans, Sons & Co., Hanover Street, Liverpool.

IMMEDIATELY, Assistant (outdoors), for first-class Retail and Dispensing. Apply, stating age, salary, and usual particulars, to John Teeboy, St. George's Road, Bolton.

AN Assistant, about 23 or 24, well up in Dispensing; qualified preferred; if writing, send photo and state salary required. J. W. Taplin, 96 Craven Park Road, Harlesden, N.W.

JUNIOR Assistant who has passed Minor; indoors. Please state age, salary required, with photo and references, or apply personally to T. R. Prime, Upper Norwood (close to Crystal Palace).

JUNIOR wanted for Mixed Country trade; small town; agricultural district; state age, experience, and salary expected. 160/21, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

FIRST week in October, an accurate Dispenser, of town experience, writing a good hand, about 5 ft. 10 in., and 25 years of age, for a Pharmacy. Apply, 5 Bathurst Street, Sussex Square, Hyde Park.

CANNES, France.—Wanted, English Assistant; one with some knowledge of French and Homœopathic Pharmacy preferred. Address, with reference, Monsieur Doron, 30 Rue d' Antibes, Cannes, France.

TUNBRIDGE WELLS.—A qualified Assistant, accustomed to first-class Dispensing and Retail business; age about 24; 2 kept. Apply, with particulars, to Miller & Co., 42 Mount Ephraim, Tunbridge Wells.

A COMPETENT Assistant wanted at once; indoors; good Dispenser and accustomed to first-class business; qualified preferred. Apply, personally if possible, to V. L. Fellows, 49 Hertford St., Mayfair, W.

IMPROVER or Junior, accustomed to a Mixed country business. Apply, with full particulars, enclosing photo, and stating salary required (indoors), to Arthur Carlton, Chemist and Druggist, Peterborough.

QUALIFIED Manager wanted for business in a working-class neighbourhood, to reside on premises; married preferred; salary and commission. Apply, between 11 and 1 o'clock, 104 Farringdon Road, E.C.

A GOOD Dispensing Assistant; well up in first-class business; Minor qualification; no Sunday duty. Age, height, and salary required, with references, to Martin Magor, Pharmacist, Corporation Street, Birmingham.

H. B. PARE, Chemist, Bolton, who has 16 Retail Shops, requires an Assistant to put up orders for the shops, and to take the place of Managers in sickness, &c.; good all-round man essential. State full particulars.

WANTED, a Junior or Improver, of good abilities and address, for Retail and Dispensing business. Apply, stating particulars, viz., age, height, and salary required, with references, to George Baxter, Pharmacist, Chester.

IMPROVER or Junior, in a Dispensing and General Retail business; time for study if required; active and willing; good references indispensable. Apply, "Delta," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, immediately, Junior Assistant (qualified), for counter in Mixed Country business; easy hours. Apply, stating age, experience, salary required (outdoors), and references, to F. Ibbotson, Chemist, Cathedral Corner, Wakefield.

WANTED, a thoroughly competent Dispenser, accustomed to a first-class business; preference given to a gentleman who has some knowledge of French and French Pharmacy. Address, S. J. Weston, 151 Westbourne Terrace, W.

A CAPABLE and trustworthy Assistant required, for Mixed business, in a manufacturing town of 20,000 population, near Manchester. Usual particulars in full, salary required, with photo (if convenient), to John Birch, Chemist, Heywood.

ASSISTANT (indoors); must be gentlemanly, able to Prescribe and Extract Teeth; permanency preferred; qualified; enclose photo; to manage a Branch; salary 25s. a week. Apply, Breadner, Chemist, Cheetham, Manchester.

WANTED, a steady, reliable Assistant, from 21 to 30 years of age; indoors; good salary to a thorough man of business; easy hours, and closed on Sundays; also a Junior, about 20. R. S. Farrer, Waterloo Pharmacy, Stroud, Gloucestershire.

A QUALIFIED Assistant wanted in a good London house; not under 23 years of age. Apply, in first instance, stating age, height, full particulars of experience, and salary required, to "Alpha," c/o Horner & Sons, Mitre Square, Aldgate, E.C.

INVOICE Clerk (Senior) wanted by a firm of Wholesale Druggists; only those who have held a similar position in the trade and are well experienced need apply, stating age, &c., to 161/18, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, Dispenser and Bookkeeper (outdoors), by a Surgeon; aged 24 to 35; permanent situation; good references indispensable; must be quick and obliging. Apply, stating salary, &c., to Dr. Maybury, 9 Hampshire Terrace, Southsea.

WANTED, a Junior Assistant (one just out of his apprenticeship), soon; indoors; abstainer, and have passed the Preliminary. Apply, stating age, height, salary, when disengaged, with photo (to be returned), George Windeatt, Wellington, Somerset.

WANTED, by a firm of Wholesale Druggists, a first-class gentleman to represent them abroad; none need apply unless thoroughly qualified in every respect. Apply, by letter in first instance, "Export," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SOUTH AFRICA.—Qualified Assistant, holding Minor certificate; 25 years of age, not under; must be a good Dispenser; 3 years' agreement; second-class passage paid out. Apply, "Export Department," S. Maw, Son & Thompson, 7 to 12 Aldersgate Street, London.

ASSISTANT Forewoman wanted: knowledge of Drugs necessary; must be sufficiently experienced to take entire charge of a department. Apply by letter, stating age, salary, and experience, to "A," care of Crossley, Moir & Co., Advertising Agents, 57A Coleman Street, E.C.

WANTED, energetic and competent Assistant for Branch; accurate Dispenser, able to Prescribe, and a good Counterman; take charge in absence of principal; hours short, no Sunday duty. Applicants please state salary, references, and every particular to C. B. Stuker, Launceston.

AN Assistant; General, Retail business; good Counterman, and obliging, able to take charge in absence of principal; liberal and progressive salary. Apply with full particulars, in first instance, "Chemicus," Office of THE CHEMIST AND DRUGGIST, 42 Cannon St., E.C.

WANTED, to assist in the Buying Department of firm of Export Chemists and Druggists, a young man who has had the necessary experience to qualify him for such a place; must be sharp and business-like. Apply by letter only, B., c/o Warner Bros., 131 Finsbury Pavement, E.C.

JUNIOR Assistant (indoors); accustomed to Prescribing and Dispensing and General Country Retail; one only kept; good references indispensable. State age, height, salary required, and usual particulars, with recent photo (to be returned), to A. Worts, Chemist, Harwich, Essex.

WANTED, at once, a first-class Assistant (qualified), capable of taking charge of a large business; must be a good Dispenser, Prescriber, and Counterman; single; aged about 30; highest references indispensable. Apply (personally, if in town), Davies, 393 Commercial Road, London, E.

INDOOR Assistant, aged 18 to 22, for good-class Dispensing business, London, N.W.; hours 8 to 9, Saturdays 10; an evening out; duty alternate Sundays from 6 P.M.; member of a Christian Church preferred. Full particulars to Paraldehyde, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

J. E. PHILLIPS, Pharmacist, Ealing, W., requires, immediately, a qualified outdoor Assistant; a neat and accurate Dispenser; one with a knowledge of Homœopathy and Photography preferred. Apply personally, or if by letter enclose carte, and state age, height, experience, salary required and reference.

WANTED, a Minor Assistant, at once; aged about 30: must be quick and obliging to customers; one used to Store trade preferred; good wages given to a good man. Give fullest particulars, salary, &c., and enclose photo (to be returned), to the Thompson Drug Co. (Limited), Ashton-under-Lyne.

A DISPENSING Assistant; used to West-end or South-coast business; Minor qualification if possible. Also a Junior, to act as bookkeeper and copy prescriptions; both indoors; applications not answered by return may be considered as declined. Apply, Wm. Gurnell (Gibbs & Gurnell), Union Street, Ryde.

ASSISTANT, aged 24, for brisk cash business; every consideration to competent man. Apply, personally or by letter, to Portway & Co., 225 Jamaica Road. London, S.E.

A COMPETENT Assistant: single; outdoors. Apply by letter, giving full particulars and salary required, to Lockyer Bros. Chemists, 87 Evelyn Street. Deptford, S.E.

TO Travellers.—A liberal commission offered to Travellers able to introduce valuable Specialities to Chemists and Medical Men "Manufacturer," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

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WANTED, Manager; qualified: aged about 30; good Counterman indispensable; must be active, obliging, and of good address: only those seeking a permanency treated with; state age, height, experience, and enclose carte; character and ability must stand strictest investigation. Apply, J. & J. Thompson & Co., 192 Manchester Street, Oldham.

TO take charge of small Branch in thickly populated neighbourhood, London, S.E.: good Preseriber and Extractor; preference given to Qualified man, Registered Deatist, with own instruments, &c., and in view of early purchase upon easy terms: state salary and particulars: good reference indispensable. Apply, H. Constance, 114 Leadenhall Street, London, E.C.

IMMEDIATELY, qualified outdoor Assistant (under 32), seeking permanency, to manage Retail Branch, and occasionally assist at main establishment (Family and Photographic); must be well recommended as steady, industrious, obliging, and trustworthy; Tooth Extractor, Preseriber, and pushing Salesman required. State age, height, experience, salary, &c. (enclosing photo and references), to J. Wharton, Red Cross Pharmacies, Freeman Street and Oxford Street, Grimsby.

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RANGOON.—Wanted an Assistant; Minor qualification; good address and gentlemanly habits, accustomed to first-class trade, and acquainted with the routine of wholesale work; must write well, and be a fair correspondent, thoroughly sober and sound constitution; single, and not over 25 years of age; second-class passage paid out for 4 years' engagement; salary first year, 150 rupees per month, second 180 rupees, third 210 rupees, and fourth 250 rupees monthly (outdoors) Apply by letter, with full particulars, to "Burmah," c/o Messrs. Street & Co., Cornhill, London.

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3s. 6d. for fifty words; 6d. for every 10 words beyond.

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LOCUM: experienced; qualified; highest references. "Chemist," 23 Cluny Street, Cheetham, Manchester.

WHOLESALE; 5 years' experience; disengaged. W. J. K., c/o Mr. Hogg, 15 Tarvit Street, Edinburgh.

ASSISTANT (24); outdoors preferred; good experience. "Hanstus," 79 Cambridge Street, Eccleston Square, S.W.

LONDON; outdoors; (25) Senior; October 6th; best references. A. P. S., 155 High Street, Stoke Newington.

JUNIOR or Improver; 19; 5 ft. 6 in.; 5 years' experience; after October 15 W., 19 Foregate Street, Chester.

JUNIOR or Improver: 3½ years' experience; references. "Styrax," c/o Willows Francis, High Holborn, W.C.

JUNIOR: aged 21; good experience and references; outdoors preferred. H. C. M., 61 Northgate Street, Chester.

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JUNIOR Assistant; aged 23; London or South Coast preferred; 4 years' experience. X., 30 Grove Road, Eastbourne.

AS Manager, or Dispenser to Hospital; qualified; 20 years' experience; married; good references. B. P., 6 High Road, Kilburn.

JUNIOR; 23; medium height; 8 years' experience; disengaged, beginning October. Saunders, 247 Mare Street, London, N.E.

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ASSISTANT; Wholesale or Retail; exceptional experience and references. "Statim," 41 School Lane, Heaton-Chapel, Stockport.

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JUNIOR; in good-class business; London preferred; 20½; tall; 4½ years' experience. W., 19 Hassington Road, Hampstead, N.W.

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DISENGAGED (24); tall; good Dispenser and Prescriber; good references; moderate salary. "Spere," 30 Great Queheo Street, N.W.

ASSISTANT: good experience: time for study; in London or suburbs; aged 22; height 5 ft. 10 in. Roberts, 72 Melbourne Road, Leicester.

IMPROVER or Junior; 2½ years' experience; aged 21; height 5 ft. 10 in.; or situation in Wholesale. Norton, 4 Trafalgar Road, Egremont.

AS Junior; 19; passed Preliminary; 3¾ years' good experience; first-class references; in London or North. Fanley, Belle Vue Park, Sunderland.

JUNIOR; aged 20; good Dispenser, Counterman; excellent references. Apply, Williams, 17 Mayfield Villas, Merton Road, Wandsworth, S.W.

AS Manager or Traveller, or other good berth; Qualified; age 40; well recommended. "Alpha," 51 Waterloo Road, Cape Hill, Birmingham.

AS Manager; qualified; married; aged 29; comfortable permanency desired; disengaged October. "Chemist," 4 Commerce Place, Purley, Surrey.

AS Manager, country branch, with view to purchase; low salary; disengaged; aged 34; Extractor and Prescriber. W. L., 59 York Road, Lambeth.

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ASSISTANT: temporary or permanent; 25; disengaged middle October; highest town and provincial references. "Major," 1 Mordaunt Road, Southampton.

AS Part-time Dispenser to Surgeon or Chemist; 22; well up in Dispensing; good references. 153/38, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C

AS Assistant; 7 years' experience Mixed Trade, Extracting, and Prescribing; aged 24 years; disengaged; not qualified. A. H. Perkins, 17 Jeffrey Street, Camden Town, N.W.

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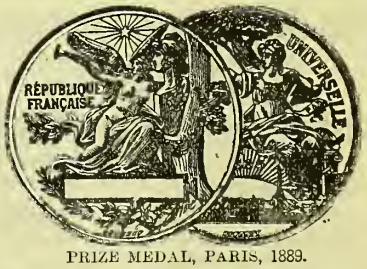
Analysis by the "LANCET," December 20th, 1890:—

"We have submitted to examination the Teas of the Great Tower Street Tea Company (Limited). They all yield liquors which are generous to the taste, and of full strength and vigour. The results of our analysis indicate the purity and genuineness of the samples."



PRIZE MEDAL, PARIS, 1889.

Where Vacancies exist, Agencies are appointed by

THE GREAT TOWER STREET TEA CO., LIMITED

5 JEWRY STREET, LONDON, E.C.

PASCALL'S GOLDEN MALTEX

PATENTED.

Contains 25 % of Allen & Hanburys' Extract of Malt.

A NOVEL CONFECTION.

Delicious Flavour. Brilliant & Attractive Appearance.

SELLS AT SIGHT.

Vide Dr. Tanner's Report, and *The Chemist and Druggist*, April 20th.

1/- Bottles, **9/-** per dozen; 1-lb. Bottles, **18/-** per dozen; and in 2-lb. and 4-lb. Bottles, **1/4** per lb.

HANDBILLS POST FREE ON APPLICATION.

OF ALL WHOLESALE HOUSES, OR OF THE MANUFACTURER, [1]

JAS. PASCALL, BLACKFRIARS ROAD, LONDON, S.E.

PLAIN SPEAKING.

The Chemists
of the United Kingdom.

September, 1892.

Gentlemen,

We wish to speak plainly to you on the subject of Pepsin, believing it will be to your advantage as well as ours.

No one can compete with us either in quality or in price, this because of our exceptional position and the chemical talent we employ. A firm that slaughters 1,750,000 pigs a year, and can prepare Pepsin from the stomachs whilst they are absolutely fresh, can well claim pre-eminence, and this we do.

The strength of our Pepsin is never questioned, and we guarantee that each grain we sell will digest 2,500 times its weight of egg albumen.

We ask you why you consent to pay 3/6 to 5/- per oz. for Pepsin of inferior quality and strength, when you can purchase our 2,500 test Pepsin at 3/6 per oz., and can, if you still have a call for Pepsin, B.P., make 4 oz. from each oz. of ours by the addition of 3 oz. of milk sugar. We thus enable you to buy **PEPSIN, B.P., AT 1/- PER OZ.** This is a startling statement, but it is true, and worthy of your consideration.

For dispensing fluid preparations containing Pepsin, we offer you our Glycerole, each 10 minims of which contain 1 gr. of our scale Pepsin.

It is absolutely permanent, bright, and free from deposit, and many times stronger than other Glycerine preparations of Pepsin, for some of which you pay as much as 14/6 per lb. Ten minims equal in strength 4 grs. Pepsin, B.P.

"COMPARISONS ARE ODIOUS,"
BUT NOT TO US.

OUR PRICES.

PEPSIN, 2,500 test ... 3/6 per oz.
Insoluble, Scale, or Soluble Powder.
PANCREATIN, ... 3/6 per oz.
GLYCEROLE PEPSIN, 6/3 per lb.
PEPSIN TABLETS.
Bottles containing 20 ... 8/6 per doz.
" " 75 ...25/- "
PEPTONISING TABLETS.
Tubes containing 15 ... 7/6 per doz.

OF ALL WHOLESALERS.

We will post you our little work containing valuable formulæ of Digestive Medicinal Preparations free.

Six days a week we are personally interesting medical men throughout the Kingdom in our high-test Pepsins, and everywhere with the greatest success.

In the meanwhile we want to show you that it is to your advantage to use our ferments in your everyday dispensing.

Laboratory, Chicago, U.S.A.

London Office, 59 & 60 Tooley Street.

Yours faithfully,
ARMOUR & CO.

SPECIAL QUOTATIONS FOR BULK TINS OF 1 LB. AND UPWARDS.

DENAEYER'S PEPTONOIDS

AND EXTRACT OF MEAT COMPANY, LIM.,

118 BISHOPSGATE ST. WITHIN, LONDON, E.C.

TELEGRAPHIC ADDRESS .. .. "DENAEYER LONDON."

DISCRIMINATE

FOR YOUR CUSTOMERS!

between the fictitious nutritive value of such invalid foods as are mainly composed of Gelatine or the extractive matters of meat, or both, as many so-called peptones, meat essences, &c., are, and the true

STRENGTH OF MEAT,

which is not yielded by its GELATINE nor by its EXTRACTIVES, but by the ALBUMINOID matters it contains, and which, by Denaeyer's process, are dissolved and converted by pepsine into a delightful and elegant preparation.

See THE LANCET, May 2nd; HOSPITAL GAZETTE, June 5th; CHEMIST AND DRUGGIST, April 16th; ANALYST, May 1st upon Mr. Denaeyer's new method for the Analysis of Peptones, whereby the gelatine is capable of determination, whereas this body has hitherto been unavoidably included with peptone albumose by analysts.

Description will best be appreciated with the articles before you, therefore you are invited to send for a free sample of

DENAEYER'S STERILIZED PEPTONE OF MEAT (2/- per bottle, ready for use).

DENAEYER'S LIQUID PEPTONATE OF IRON (1/6 per bottle).

PULVIS FERRI PEPTONATIS (Denaeyer), 4/- per ounce.

PEPSINA PORCI (Denaeyer), 3/- per bottle, one-third of an ounce.

DEPOT AGENCIES—

FOR SCOTLAND—EDINBURGH: Messrs. Duncan, Flockhart & Co.; GLASGOW: Old Apothecaries' Co., Lim.

FOR IRELAND—DUBLIN: Messrs. Hamilton, Long & Co., Lim.; BELFAST: Messrs. Grattan & Co. Lim.

VINACOCA

Embracing the Therapeutic Properties of the COCA *Plant, blended with the best Madeira.*

COCA FOR TROUBLESOME THROATS.

VINACOCA is a direct stimulant of the most active kind, supporting life in a manner almost miraculous, without disturbance of the vital functions. For the voice, a wineglassful before any ordeal is sufficient. Its effect upon the vocal cords is surprising, and of great value to Public Speakers, Professional and other Singers, and Lecturers.

The VINACOCA is carefully prepared from the best Coca Leaf only. (No addition of Cocaine.)

ONLY ONE WINE (CHOICE MADEIRA) ONE QUALITY (A 1) ONE PRICE } THE BEST & CHEAPEST ON THE MARKET.

Sold in Bottles at 3s. 6d. each, or 40s. per dozen, Retail. Usual Trade Discount. Pamphlets for distribution, carriage paid.

COCA is prepared in various forms: COCA LOZENGES, COCA TABLETS, COCA ELIXIR, COCA TEA, COCA CHOCOLATE, STAMIN (Coca and Beef Extract), COCA TOBACCO, &c.

MENTHOLIN (PATRONISED BY ROYALTY) PREVENTS INFLUENZA.

Is a Perfect Remedy for Coriza or Cold in the Head. Highest opinions from Public and Press.

Retail Price, 1s. 1½d. per Box.

FULL PARTICULARS FROM

THE FRENCH HYGIENIC SOCIETY,

6 CONDUIT STREET, REGENT STREET, LONDON, W.

CHOLERA!

The best preventative against **CHOLERA** is

JEYES' CREOLIN

Dr. Von Esmarch found in Professor Koch's Laboratory that CREOLIN 1 per mille killed the Cholera Bacillus in 10 minutes, whereas Carbolic Acid took four days.

Dr. Eisenberg's researches prove that the Cholera Bacillus cannot live in

JEYES' FLUID.

JEYES' FLUID

Should be used as a Disinfectant against

CHOLERA.

SAMPLES, MEDICAL PAMPHLETS, PRESCRIPTION FORMULARY, FREE ON REQUEST.

JEYES' SANITARY COMPOUNDS COMPANY

(LIMITED),

43 CANNON STREET, LONDON, E.C.

CHEAVIN'S WORLD-RENOWNED FILTERS.

PATENT REMOVABLE PLATE.

A success unparalleled by any other Filter in existence.

This Filter has made its way into the most remote parts of the Globe.

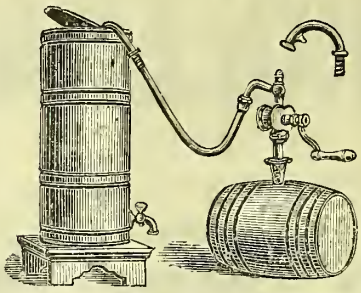
Nos.	A	B	C	D	E
Gals.	½	1½	2½	3½	5

CHEAVIN'S

Lowest Prices and Discount Guaranteed.

HAND ROTARY PUMP.

(REDUCTION IN PRICE.)



Our Rotary Pumps have two Cams, consequently operate much easier than with one Cam.

We guarantee these Pumps to empty a Barrel of Oil in Four Minutes.

No. 1. With Suction Pipe, Coupling Hook, and Holder, 45/- each.

HOSE, prepared expressly for the purpose, 1/2 per foot.

NEWTH'S BRITISH FURNITURE POLISH.

Ask for Newth's. It has no equal.

Invaluable for Spring Cleaning.

Superior to all other preparations for the purpose. First Class Award, Adelaide; First Class Award, Melbourne; Gold Medal, Paris Exhibition; Gold Medal Awarded, New Zealand Exhibition; Silver Medal and First Class Certificate, Calcutta Exhibition. *Best in the World.* Established 1838.

Retailed 3d., 6d., and 1/- per bottle.

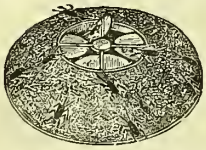
1/9, 3/3, and 6/6 per dozen.

SOAP OR CASH BOWL.

This is another addition to our extensive stock of useful utensils in pulp-ware.

Send for Illustrated Price List.

THE "DEMON" BEETLE TRAP.



Has been proved to CATCH THOUSANDS where other Traps fail.

Sales last Season were greater than those of all others combined for past 5 years.

THE ONLY REAL TRAP.

8/6 per dozen.

HERBERT'S

Of which we are Proprietors and Manufacturers.

Saves 50 times its Cost. In boxes of 1 dozen, 3/3.

PEPPER MILL.

Nickel-plated Table Pepper Mill.

12/6 per dozen.

THE OISTERCIENNE CORK SCREW AND CASE.

The block is half size. Price 5/6 per gross.

BLOW PIPE.

This little article has been constructed to take the place of the old-fashioned blow-pipe with rushes. For making small joints in compo pipes. For soldering tin-ware, zinc, &c., at a cost of about a farthing for six hours, and may be used in any position. To retail 1/6 each. Price 12/6 per dozen.

"INTELLIGENT" OIL CAN.

That knows when the lamp or stove is full, and intelligently stops. It not only stops itself, but it continuously sounds an alarm until the lamp is full.

½-gal. size, 9/- doz.
1 gal. size, 11/- doz.

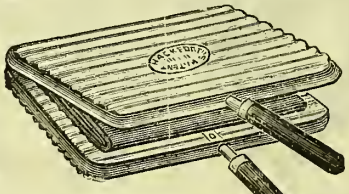
In stock.

THE 'OUTYOUGUM' CORK EXTRACTOR

Patented. Price 8/- per dozen.

One thousand times better than any that have gone before, for taking Corks and parts of Corks from Bottles, Jars, &c.

To retail at 2/- and 2/6. Per dozen, 14/- .. 18/-



HACKFORTH'S PATENT

Flannel & Poultice Heater.

The value of this Heater when hot flannels are wanted in a hurry cannot be estimated too highly. Dip a piece of flannel, any size required, in cold water, wring out, and fold to size of Heater, place therein, and *move slowly* backwards and forwards for a minute or two over an ordinary gas flame or oil lamp; turn the Heater over and heat the other side, and in *less than 3 minutes* the flannel is piping hot and ready for application.

BROOKE'S SOAP.

Free London or Bristol.

If difficulty in obtaining in any part of the world write—

Sole London Consignees:—

"FORDHAMS, LONDON."

100 Bar Cases	..	for 25/-
60 ,,	..	,, 15/-
48 Half-bar boxes		,, 6/3

PINE TISSUE IN PACKETS.

A Special Line.

About 500 Sheets, per doz. pkts., 2/-; if 5 gross, 22/- gross.

12-oz. Rolls, Perforated.

1. Thin Manilla,	1,000 shts.,	6/-
2. Superior	1,000 ,,	4/6
3. Seconds	1,000 ,,	3/6

12-oz. Rolls, Non-Perforated.

1. Extra Super,	1,000 shts.,	4/9
2. Seconds	1,000 ..	3/3

SIZE POWDER.

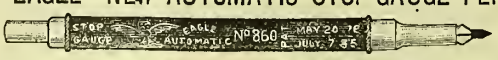
28, 56, and 112 lb. boxes.

½, ¾, 1, 2, 4, and 7 lbs.

IN THREE QUALITIES.

44/-, 50/-, and 65/- per cwt.

THE "EAGLE" NEW AUTOMATIC STOP-GAUGE PENCILS.



These Pencils have been much improved with Stop Gauge, and fitted with new indelible Black Lead, and prices reduced to enable them to be retailed at 6d. each, in two lengths.

No. 860, large size, on cards of 1 doz., per doz.,		4/-
No. 3880, small size, in boxes	.. ,,	4/-
No. 932, Refils for either ..	Per doz. cases,	3/-

(Each case contains 3).

W. B. FORDHAM & SONS, LIM., 36 to 40 YORK ROAD, KING'S CROSS, LONDON, N.

Telephone Number, 1852. Telegraphic Address—CHEMICUS LONDON.

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Chemists' Aerated Waters Association (Lim.)
Ellis & Son (Ruthin)
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Idris & Co.
Ingram & Royle
Jewsbury & Brown
Johannie Spring (Lim.
Mills & Co. (Bourne)
Schweppe, J., & Co

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Tyler, Hayward, & Co.

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Soul, W. H., & Co.

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Howarde & Sons (Cinchona)
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Goodall, Backhouse & Co.

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Herschell, Dr. | Minter, Dr.

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Howards & Sons
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Isaacs & Co.
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Kilner Bros.
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Austin & Co. (Cardboard)
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Bereud & Co.

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Evans, Sone & Co.
Ferris & Co. | Moss, J., & Co

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May, Roberts & Co.
Sanger & Sons'

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National Cash Till Co.
Patent Voucher Check Till Co. (Lim.)

CHLRIDE OF LIME
Government Sanitary Co.
National Chemical Co.

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Fletcher Fletcher & Stevenson
Fuerst Bros.
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Greeff, R. W., & Co.
Harrington Bros.
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Hodgkinsons, Treacher &
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Greeff, R. W., & Co.
Macfarlan, J. F., & Son
Salamon & Co. (Lim.)
Smith, T. & H., & Co.
Wright, Layman & Umney
Zimmermann, A. & M.

CITRIC ACID
- Hassall & Co. (Phospho)

COCAINE-HYDRO.
- Howards & Sons

COCA WINE
- Armbrecht, Nelson & Co.
- French Hygienic Soc.
- Stephen Smith & Co. (Hall's)

COCOA & CHOCLTE
- Cadbury Bros. | Christy & Co
- Rowntree & Co.

COD-LIVER OIL
- Allen & Hanburys
- Burroughs, Wellcome & Co.
- Evans, Sons & Co.
- Greeff, R. W., & Co.
- Hill, A. S., & Son
- Hockin, Wilson & Co.
- Lofthouse & Saltmer
- Smith, T. J.
- Woolley, Sons & Co.

COFFEE
- Symington, T., & Co. (Coffee Essence)

COLPSIBLE TUBES
- Betts & Co.

COMP. MEDICINES
- Allen & Hanburys
- Blyton, Astley & Co.
- Burroughs, Wellcome & Co.
- Fuerst Bros.
- Hooper, B., & Co. | Leo & Co.
- Leo & Co.
- Lloyd, T. H., & Co.

CONCENT. LIQS.
- Fletcher, Fletcher & Stevenson
- Lloyd, T. H., & Co.
- Wood, Cooper & Co.

CONFECTIONERY
- Blyton, Astley & Co.
- Crawshaw & Co.
- Gibson, R., & Sons
- Guest, T., & Co.
- Pascall, J.
- Southwell, C., & Co.
- Warrick Brothers

CORN CURES
- Pattison, G.
- Solport Bros.

COTTON WOOL
- Haynes, G., & Co. (Absorbent)
- Robinson & Sons (Absorbent)
- Sanger, J., & Sons
- Seabury & Johnson

CRSHD LINSEED
- Graham, W., & Co.
- Mumford, S. G.

DENTIFRICES
- Beecham, T.
- Bronnley, H., & Co.
- Jewsbury & Brown
- Lakeman, J. J.
- Quelch, H. C.
- Spurin, R. C. (Dorothy)
- Stevens, P. A.
- Sutton, C., & Co.
- Thompson & Capper
- Warrick Bros. | Wilson, A.
- Woods, W. (Areca Nut)

DISINFECTANTS
- Calvert, F. C., and Co.
- Dussex Bros., & Co.
- Fletcher Bros. & Co.
- Government Sanitary Co.
- Grindley & Co. (Lim.)
- Jeyes' Fluid
- Mason, C. E., & Co.
- National Chemical Co.
- Sanitas Co.
- Seabury & Johnson
- Star Chemical Co.
- Tyrer, Thos., & Co.

DOG MEDICINES
- Spratts Patent (Lim.)

DRUGGISTS' SUN.
- Ayrton & Saunders
- Bailey, M., & Co.
- Barclay & Sons (Limited)
- Beaulette Co.
- Bush, H. W., & Co.
- Chemists' Association (Lim.)
- Chemists' Mineral Water Association (Lim.)
- Evans, Lescher & Webb
- Evans, Sons & Co. (Savars)
- Fordham, W. B., & Sons (Lim)
- Gilbertson, H., & Sons
- Hockin Wilson & Co.
- Idris & Co.
- Kay Bros. (Lim.)
- Lynch & Co. (Lim.)
- May, Roberts & Co.
- Newbery, F., & Sons
- Quelch, H. C.
- Sanger & Sons
- Schutze & Co.
- Tidman & Son
- Toogood W.
- Wood, Vincent
- Young, J.

DRUG MILLS
- Burroughs, Wellcome & Co.

DYES, &c.
- Crawshaw & Co.

EAU DE COLOGNE
- Farina, J. M.
- Hockin, Wilson & Co. (Farina)
- Martin, Maria (Nun)
- Oscar, Moenich & Co.

ELECTRIC APPAR.
- Darton, F., & Co.
- Gent & Co.
- Orme & Co.

EMBROCATION
- Burn, H.
- Day & Sons
- Elliman, Sons & Co.

ENEMAS
- Evans, Sons & Co.
- Sanger & Son
- Warne & Co.

ENGRAVERS
- Barker, W., & Son
- Corsan, J. R.

ESSENCES
- Beckett, W.
- Berger, F.
- Boehm, F.
- Boulton, J., & Co.
- Bratby & Hinchliffe (Lim.)
- Burgoyne, Burbidges & Co.
- Bush, W. J., & Co.
- Fletcher, Fletcher & Stevenson
- Goodall, Backhouse & Co.
- Hay, W.
- Idris & Co.
- May & Baker (Lim.)
- Newball & Mason
- Oldfield, Pattinson & Co.
- Stevenson & Howell
- Tyrer, P. (Anchovies)
- Tyrer, T., & Co.
- Woolley, Sons & Co.

ESSENTIAL OILS
- Berger, F.
- Boehm, F.
- Bush, W. J., & Co.
- Chiris, A.
- Clay, Dod & Co.
- Cocking & Co. (Japan Peppermint)
- Dodge & Olcott
- Evans, Sons & Co.
- Hodgkinsons, Treacher & Clarke
- Lewig, M.
- May & Baker (Lim.)
- Robert Frères
- Sozio & Andrioli
- Schlesinger, L.
- Stevenson & Howell
- Symes & Co.
- Tombarel Freres
- Treatt, R. C.
- Vogt, G., & Co.
- Warrick Bros.
- Wright, Layman & Umney

ETHER
- Duncan, Flockhart & Co.
- Howards & Sons
- May & Baker (Lim.)
- Robbins, J., & Co.
- Tyrer, T., & Co.
- White, A., & Sons
- Woolley, Sons & Co.
- Wright, Layman & Umney

EUCALYPTUS
- Downie B. I. P. Co.
- Drysdale, J. W. & Co.
- Evans, Lescher, & Webb
- Fletcher, Fletcher & Stevenson
- Tasmanian Eucalyptus Oil Co.
- Vogt G., & Co.

EXTRACT MEAT
- Brand & Co.
- Bush's Liquid Beef
- Denaeyer's Peptone and Extract of Meat Co. (Lim.)
- Idris & Co. (Viking Co.)
- Liebig Co.
- Liquor Carnis Co. (Lim)
- Mason, G., & Co. (Lim.)
- Wyeth, J., & Brother

EXTRACTS, FLUID
- Allen & Hanburys
- Anderson & Co.
- Barber, G., & Co.
- Burgoyne, Burbidges & Co.
- Evans, Sons & Co.
- Fletcher, Fletcher & Stevenson
- Hearon, Squire & Francis
- Hooper, B., & Co.
- Lloyd, T., Howard & Co.
- Moss & Co.
- Potter & Clarke
- Vogt, G., & Co.
- Wright, Layman & Umney

FEEDING BOTTLES
- Burroughs, Wellcome & Co. (Thermo Safe)
- Chemists' Association (Lim.)
- Evans, Sons & Co.
- Hearn, E. A., & Co.
- Hockin, Wilson & Co.
- Kilner Bros.
- Lynch & Co.
- Marriott, E., & Co.
- May, Roberts & Co.
- Maw, S. Son & Thompson

FILTERING
- Berkefeld Filter Co.
- Fordham, W. B., & Sons (Ld.)
- Mawson, Swan & Weddell
- Silicated Carbon Filter Co.

FLESH GLOVES
- Pattison, G.

FLY PAPERS
- Ford, Shapland & Co.
- Mather, W.
- Maw, S., Son, & Thompson
- Tunbridge & Wright
- Wilson, S.

FOOD (Infants' & Invalids')
- Allen & Hanburys
- Benger's Food
- Brand & Co.
- Evans, Sons & Co.
- Goodall, Backhouse & Co.
- Hearon, Squire & Francis
- Idris & Co.
- Liebig Co.
- Liquor Carnis Co. (Lim.)
- Nestlé, H.

FORMULA
- Brooks, T.

GINGER ALE
- Hay, W. (Essence)
- Mills, R. M., & Co.

GLYCERINE
- Blyton Astley & Co. (Pastilles)
- Boehm, F. | Fink & Co.
- Fuerst Bros.
- Greeff, R. W., & Co.
- Lynch & Co.
- Price's Candle Co.

GRANULAR PREP.
- Bishop, A., & Sons
- Evans, Sons & Co.
- Hearon, Squire & Francis
- Lloyd, T. H., & Co.
- Wright, Layman & Umney

GRIPE WATER
- Woodward, W.

GUM
- Fink & Co. (Arabic, &c.)
- Greeff, R. W., & Co.
- Lovermore, Aug., & Co.

HAIR PREP.
- Anglo-American Drug Co. (Lim.)
- Chesebrough Mnfg. Co.
- Edwards & Co.
- Truefitt, H. P. (Lim.)

HERBALISTS
- Newball & Mason
- Potter & Clarke

HERB BEER EXTS
- Newball & Mason
- Oldfield, Pattinson & Co.
- Potter & Clarke

HOMŒOPATHIC
- Keene & Ashwell
- Leath & Ross
- Thompson & Capper
- Watson & Wates

HYPOPHOSPHTES
- Duncan, Flockhart & Co.
- Fellows
- Fletcher, Fletcher & Co.
- Symes & Co.
- Tyrer, Thomas, & Co.

INHALERS
- Burroughs, Wellcome & Co.
- Hockin, Wilson & Co.
- Lynch & Co. (Lim.)
- Spirone, Co., The
- Toogood, W.

INK [See Marking Inks]
- Bewley & Draper

INSECTICIDES
- Keating, T.
- Steiner & Co.

INSURANCE
- London and Lancashire Fire Insurance Co.

KETCHUP
- Tyrer, P.

LANOLINE
- Burroughs, Wellcome & Co.

LARD
- Ewen, J., & Sons

LIME JUICE
- Southwell, C., & Co.

LINT
- Liverpool Lint Co.
- Newsome, C.
- Robinson & Sons
- Seabury & Johnson

LIQUORICE
- Fergusson & Forster (Solazzi)

LITHIA
- Fuerst Bros.

LOZENGES
- Allen & Hanburys
- Blyton, Astley & Co.
- Gibson, R., & Sons (Manfrs.)
- Hill & Son
- Jackson, T.
- Raimes & Co.
- Warrick Bros.

MACHINERY
- Bennett, Sons, & Shears
- Burroughs, Wellcome & Co.
- Gardner, W.
- Leete, Edwards & Norman, Ld.
- Ohlson, A.
- Pindar, J. W.
- Pontifex & Wood (Lim.)
- Werner & Pfleiderer (Kneading and Sifting)

MAGNESIA
- Bush, W., Son & Co.
- Evans, Sons & Co.
- Greeff, R. W., & Co.
- Henry, T. & W. (Calcined)
- Hill & Sons, A. S.
- Washington Chemical Co.

MALT EXTRCT, &c.
- Allen & Hanburys
- Anderson & Co.
- Burroughs, Wellcome & Co. (Kepler's)
- Hearon, Squire & Francis
- Raimes & Co.
- Richardson, John, & Co. (Leicester), Lim.
- Wyleys & Co.

MANICURE PREP.
- Dr. Paul's

MARKING INKS
- Barber, G., & Co. (Crimson)
- Bond, John (Crystal Palace) (Ink and Pencils)
- Perry & Co. (Pencil)

MEDICINE CHSTS
- Burroughs, Wellcome & Co.
- Day, Son & Hewitt (Veterinary)
- Day & Sons (Veterinary)

MENTHOL
- A 1 Menthol Depot, A. W. Shirley, Proprietor.
- Cocking & Co.
- Evans, Sons & Co.
- Hockin, Wilson & Co.
- Seabury & Johnson
- Tyrer, P.

MERCURIALS
- Fuerst Brothers
- Howards & Sons
- May & Baker (Lim.)
- Tyrer, Thomas, & Co.

METH. SPIRITS, &c.
- Boord & Son
- Burrough, J.
- Harvey, J. & W., & Co
- Jones & Co.
- Phillips, G., & Co
- Smith, S., & Co.

METHYLENE
- Robbins, J., & Co.

MICROSCOPES
- Darton, F., & Co.
- Newsholme, G. T. W. (Slides)
- Perken, Son & Rayment

MILK
- Nestlé, H. (Condensed)

MORPHIA
- Macfarlan, J. F., & Co.
- Smith, T. & H., & Co.

OILS, PAINTS, &c
- Fleming, A. B., & Co. (Lim.)
- Fox, W., & Sons

OINTMENT BASES
- Burroughs, Wellcome & Co.
- Chesebrough (Vaseline)
- Grindley & Co. (Petroleum Jelly)
- Richardson, J., & Co. (Lim.)

OPTICIANS
- Botwright & Grey
- Darton, F., & Co.
- Perken, Son & Rayment

OTTO OF ROSE
- Fuerst Bros.
- Shipkoff & Co.
- Treatt, R. C.

PETROLEUM
- Allen & Hanburys
- Barclay & Sons (Lim.)
- Dee Oil Co. (Lim.)
- Fuerst Bros. (Jelly)
- Grindley & Co. (Jelly)

PAPAÏN
- Kühn B. (Dr. Finkler)

PATENT AGENTS
- Horn & Son

PATENT MEDCNS
- Anglo-American Drug Co. (Lim.)
- Atkinson & Barber (Infant Preserv)
- Barclay & Sons (Lim.
- Beecham, T. (Pills)
- Bow's, Dr., Liniment
- Bromley, C.
- Chemists' Association
- Clarke's Blood Mixture
- Edwards & Son
- Evans, Lescher & Webb
- Fenning's (Powders)
- Goodall, Backhouse & Co.
- Guy's Tonic
- Hakka Cream (A.P.Bush & Co.)
- Holloway (Pills and Oint.)
- Hovenden & Sons
- Kreat Halviva
- Lalor (Phosphodyne, &c.)
- May, Roberts & Co.
- Morison's Ointment
- Newbery & Sons
- Roberts & Co. (Foreign)
- Sequah (Lim.)
- Sutton, W., & Co.
- Wilson, A. (Bunter's Nervine)
- Zirrizmah

PEPSINE, &c.
- Armour & Co.
- Burroughs, Wellcome & Co.
- Chassaing & Co.
- Fletcher, Fletcher & Stevenson
- Greeff, R. W., & Co.
- Newbery, F. & Sons (Ingluvin)
- Stern, G. & G.
- Warner & Co. (Ingluvin)
- Wyleys (Lim.)

PEPPERMINT OIL
- Bush, W. J., & Co.
- Cocking & Co.
- Stevenson & Howell

PERFUMERY, FANCY SOAPS
- Barclay & Sons, Lim.
- Bayley & Co.
- Beanlette Co.
- Blondeau & Cie.
- Boehm, F.
- Brooks, T. (Solid Perfume)
- Burroughs, Wellcome & Co.
- Bush, W., & Co.
- Cavallier Frères
- Chemists' Association (Lim.)
- Chesebrough Manufacturing Co
- Chiris, A.
- Evans, Sons & Co.
- Ewen, J., & Sons
- Farina, J. M.
- Giraud Fils
- Grossmith, J., & Sons
- Hovenden & Sons
- Mulhens, F.
- Newbery & Sons (Berdoes)
- Oftinger, E.
- Pears' Soap (Lim.)
- Price's Patent Candle Co.
- Robert Frères
- Rosmarine Manufg. Co.
- Sainsbury, S. (Lav. Water)
- Shirley, A. W.
- Sozio & Andrioli
- Tidman & Son
- Tombarel Freres
- Treatt, R. C.
- Truefitt, H. P. (Lim.)
- Warrick Brothers
- West, T. (Okell's Mona)
- Woolley, Sons & Co. (Powder)

PEROX. OF HYDR.
- Robbins & Co.

PHARM. PREPS.
- Allen & Hanburys
- Anderson & Co.
- Barron, Harveys & Co.
- Battley & Watts
- Berger, F. | Boehm, F.
- Boehringer, C. F., & Sohne
- Boulton, J., & Co. (Lim.)
- Burgoyne, Burbidges & Co.
- Burroughs, Wellcome & Co.
- Chassaing & Co.
- Delacre, Ch., & Co.
- Duncan, Flockhart & Co.
- Ferris & Co.
- Fletcher, Fletcher & Co.
- Giles Schacht & Co.
- Greeff, R. W., & Co.
- Hearon, Squire & Francis
- Hewlett & Son
- Howards & Sons
- Jeyes Sanitary Compounds Co
- Keith & Co. (Conc. Tinctures
- Kingsford & Co.
- Lambert Pharmacal Co.
- Largen, G. W.
- Learmount, W. D. ("Noptulina")
- May & Baker (Lim.
- Moss, J., & Co.
- Oppenheimer, Son & Co. (Lim.)
- Potter & Clarke
- Richardson, John, & Co. Leicester), Lim.
- Ricqles & Co. | Roberts & Co
- Smith & Sons
- Smith, T. & H., & Co.
- Southall Bros. & Barclay
- Sutton, W., & Co.
- Symes & Co.
- Tyrer, T., & Co.
- White, Alfred, & Sons
- Woolley, Sons & Co.
- Wride Bros.
- Wyleys & Co.

PHOTOGRAPHIC
- Barclay & Sons (Lim.)
- Blackfriars Photographic Co.
- Botwright & Grey
- Darton, F., & Co.
- Fallowfield, J.
- Greeff, R. W., & Co.
- Griffiths, W., & Co. (Lim.
- Houghton, G., & Sons
- Howards & Son (Chemicals
- Orme, J., & Co.
- Perken, Son & Rayment
- Tyrer, T., & Co.
- White, Alfred & Sons
- Zimmerman & Co.

PILL MACHINES
- Pindar, J. W.
- Toogood, W. (Coater)
- Werner and Pfleiderer

PILLS (Coated, &c.)
- Allen & Hanburys
- Anderston Apothecaries' Hall
- Beecham, Thomas
- Bromley, C
- Eade's Gout Pills
- Evans, Sons & Co.
- Harrogine Pill Co.
- Hearon, Squire & Francis
- Hill, A. S., & Son | Holloway's
- Lloyd, T., Howard & Co.
- McKesson & Robbins
- Morison's
- Newbery & Sons
- Nicholls' Medical Hall
- Richardson, J., & Co. (Lim.)
- Wand, S. (Pearl Coated)
- Warner, W. R. & Co. (Coated)
- Wride & Co. — Wyleys & Co.

PLASTERS
- Evans, Sons and Co.
- Johnson and Johnson
- St Dalmas, A.
- Seabury and Johnson (Lim.)

PODOPHYLLIN, &c.
- Keith, B., and Co.
- Smith, T. and H., and Co.

POLISHING
Bradley & Bourdas' (Albatum)
Flesher, Raybould & Co.
Fordham, W. B., & Sone (Lim.)
Oakey, John, and Sons
Pyn-ka Syndicate (Lim.)
Stephens & Co.

PORCELAIN GOODS
Toogood, (E.o. Pote. reriet.)

POULTRY FOOD
Spratt's Patent (Lim.)

PRECIP. CHALK
Levermore, Aug., & Co.

PRINTING
Bowers Bros.
Corsan, J. R. (Glass)
Ford, Shanland and Co.
Hildesheimer & Faulkner
Silverlock, H. | Townsend, J.
Towneend, J.

PUMILINE
Stern, G. and G.

QUININE SALTS
Boehringer, C. P., & Sohne
Greeff, R. W., and Co.
Howards and Sons
Zimmermann A. & M.

RENNET
Duncan, Flockhart and Co.
Greeff, R. W., and Co.
Oldfield. Pattinson and Co.

SACCHARIN
Allen and Hanburys
Burroughe Bros.
Burroughs, Wellcome and Co.

SALICIN
Macfarlan and Co.
Smith, T. and H., and Co.

SALICYLIC ACID
Burgoyne, Burbidges and Co.
Fnerst Bros.
Zimmermann, A. and M.

SALT
Stern, G. and G. (Pepsalia)

SCHOOLS, &c.
City School of Chemistry and Pharmacy (Lim.)
Liverpool School of Pharmacy
London Homœopathic and Medical School
Manchester Col. of Pharmacy
Northern School of Pharmacy
Owens College
Sheffield School of Pharmacy
South London School of Pharmacy (Lim.)
Royal College of Science
The School of Pharmacy
University of Edinburgh
Westminster College

SAUCES, PICKLES
Goodall, Backhouse and Co.
Mason, G., and Co. (Lim.)
Tyrer, P.

SEALING WAX
Savage & Co. (Holder)

SEEDS
Potter & Clarke

SELTZOGENES
Bratby and Hinchliffe (Ld.)
Evans, Sons and Co
Fordham, W. B., & Sons (Lim.)
Lynch and Co. (Lim.)
May, Roberts and Co.

SHAVING
Hovenden & Sons (Euxesis)
Lloyd, Mrs. A. S. (Euxesis)

SHEEP DIP
Fletcher Broe. & Co.
Jevone, W. B.
Jeyes Sanitary Compounds Co.

SHOP FITTERS
Bowling and Govier
Bygrave, J. and W.
Natali, E.
Poths, H., and Co.
Treble, G., and Co.

SOAP
Ayrton and Saunders
Barclay and Sons (Lim.)
Blondean and Co. (Vinolia)
Bronnley, H., and Co.
Calvert, F. C., and Co.
Cook, E., and Co.
Fordham, W. B., & Sons (Ld.)
Jeyes' Sanitary Compounds Co.
Mulhene, F.
Pears' Soap
Price, Napoleon, & Co.
Wright, Layman & Umney

SPECTACLES
Botwright and Grey
Darton, F. and Co.
Perken, Son and Rayment

SPONGES
Cresswell Bros. & Schmitz
Evans, Sons and Co.
Peterson, M., and Co.

STAMPS (RUBBER)
Berkley, J.
Hickisson, J.

STARCH
Chancellor & Co. (Mack's Double)
Critchley (Glost)

STOPPERS
Austin and Co. (Sprinklers)
Barnett and Foster
Melin, C.
Stipendnm Stopper Co.

STOVES
Clark, S., and Co. Lim.)

SUGAR
Fletcher, Fletcher and Stevenson
Gibson, R., and Sons

SUGAR OF MILK
Burroughe Bros.

SULFONAL
Burroughs, Wellcome and Co.
Greeff, R. W., and Co.
May and Baker (Limited)

SURGICAL
Ayrton and Saunders
Bailey, W. H., and Son
Barclay and Sons (Limited)
Cocking, J. T.
Harrison, T. H.
Haywood, J. H.
Krohne and Sesemann
Liverpool Patent Lint Co.
Lindesy & Sons
Powell & Barstow
Quelch, H. C.
Richardson, John, & Co. (Leicester), Lim.
Robinson and Sons
Schutze, F. and Co.
Warne & Co.
Wood, Vincent

SYPHONS
Barnett and Foster
Bratby and Hinchliffe (Ld.)
British Syphon Co.
Fordham, W. B., & Sons (Lm.)
Geraut, E., & Co.
Idrie and Co.
Kilner Bros.
Melin, C.
Schweppe, J., & Co.

SYRUPS
Anderson & Co.
Fletcher, Fletcher (Liquers)
Idris and Co.
Wood, Cooper & Co.

TABLETS
Blyton, Astley & Co. (Sulphur)
Corean, J. R. (advertising)

TEA
Cave, Johnson & Co.
Ot. Tower St. Tea Co.
Lipton
Walker and Dalrymple

TEETHING PADS
Marriott, E., & Co.

THERMOMETERS
Bailey, W. H., and Son
Barclay and Sons (Lim.)
Darton, F., and Co.
Evans, Sons and Co.
Hicks, J. J.
Perken Son and Rayment

TOBACCO, CIGARS, CIGARETTE
Taddy and Co.

TOILET
Allen & Hanburys (Chrisma)
Balm of Bethesda
Burroughe, Wellcome & Co. (Lanoline)
Dee Oil Co. (Lim.)
Hovenden & Sons
Quelch, H. C.
Rowland, A., and Sons
Truefitt, H. P. (Limited)

TOOTH PASTE
Anglo-American Drug Co. (Lim.)
Beecham, T.
Jewsbury and Brown
Sutton, O, and Co. (Block)
Wilson, A. (Bunter's)
Woods, M. (Areca)

TRADE MARKS
Fleuret, J. B.
Horne & Son
Trade Mark Agency

TRUSSES
Bailey, W. H., and Son
Evans, Sons & Co.
Haywood, J. H.
Lindsey & Sons
Wood, V.

URETHANE
Howarde & Sons

VACCINATION
Himes, Dr.
Vaccine Association (Lymph

VASELINE
Chesebrough Manufctring Co.

VALUERS AND TRNSFR. AGENTS.
Berdoe and Co.
Brett, F. J.
Crocker, G. B., & Co.
Orridge and Co.

VETERINARY
Bird & Storey | Day and Son
Day, Son and Hewitt
Ellman, Sons and Co.
James, W. H. (Blisters)
Jeyes' Sanitary Compound
Lloyd, T., Howard & Co.
Rookledge, F. E.
Spratts (Doge)
Walker, Troke and Co.
Wyleys, Lim.

VINOLIA (Superf'tt'd)
Blondean and Co.

WHOLESALE AND EXPRT DRGGSTS
Allen and Hanburys
Anderson & Co.
Barron, Harveys and Co.
Battley and Watte
Burgoyne, Burbidges and Co.
Bush, W., and Co.
Bush, W. J., and Co.
Clay, Dod and Co.
Coward, G. F., & Co.
Delacre, Ch., & Co.
Evans, Sons and Co.
Evans, Lescher and Webb
Ferris and Co.
Fox, W., and Sons
Goodall, Backhouse and Co.
Harker, Stagg and Morgan
Hearon, Squire and Francis
Hewlett and Son
Hill, A. S., and Son
Hodgkinsons, Treacher and Co
Lofthouse and Saltmer
Lloyd, T., Howard and Co.
Macfarlan, J. F., and Co.
Oldfield, Pattison and Co.
Potter and Clarke
Richardson, J., and Co.
Smith & Sons
Symes & Co.
Thompson and Capper
Walker, Troke and Co.
Willows, Francis and Butler
Woolley Jas., Sons and Co.
Wright, Layman and Umney
Wyleys, Lim.

WINES, SPIRITS
Armbrecht, Nelson and Co. (Coca)
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1,000 PILLS IN SHOW VASE, 5/6.

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SMALL SUGAR-COATED PILLS,

Unequalled in their medicinal properties or in SOLUBILITY, the best ingredients being invariably employed.

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No. 120. Pil. Cathartic and Liver. R Podophyllin, ¼ gr.; Ext. Colocynth, ½ gr.; Pv. Soc. Aloes, 1 gr.; Pv. Scammony, ½ gr.; Pv. Saponis, 1-8 gr.; Ext. Hyoscyami, 1-8 gr.; Gingerine, 1-8 gr. Dose, 2 to 4 pills as a purgative, 1 to 2 pills as an aperient.	Per 1,000, in Plain Bottle, 4/-.	Per Stoppered Vase, with painted glass label, 6/4.	Per Bottle (Bulk) of 5,000, 18/9.

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An Ideal Tooth Powder.

The Dorothy Dentifrice is most attractively put up, and sells readily at sight. It is being extensively advertised in the best publications of the country, and a brisk demand may be expected by the trade. I trust that dealers will think well enough of the preparation to stock it, and give it a good showing on their counters and windows. It is a profitable line to stock, and is not cut.

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ONLY MAKERS OF THE CELEBRATED ORRIS ROOT OIL, crystallizing at +15° Réaumur.

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2 oz.	4 oz.	½ Pint Wicker.	Pint Wicker.	Quart Wicker.
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A trial is only needed to prove its superiority over other Plate Powders in use. Chemists will find it to their advantage to recommend this Powder, as when it is once tried it is always continued to be used.

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For the Wardrobe, Desk, Cabinet, &c. The most permanent of dry perfumes.

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Tastefully mounted, each bottle in ideal case, 2s. 6d. and 5s. each; also in elegant boxes containing miniature bottle of each six kinds, 1s. 6d. and 3s. per box.

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SEE OPINIONS OF THE PRESS, AND TESTIMONIALS FROM ALL PARTS OF THE WORLD.

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The Great Floral Air Purifier and Everlasting Perfume.

PRICES.

3d.	Size, in Boxes containing	3 dozen	6s. 0d.	per box
6d.	,, ,,	1 ,,	3s. 6d.	,,
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THE FIRM of MARIA CLEMENTINE MARTIN,

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Have been Awarded PRIZE MEDALS for their Celebrated

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AT THE FOLLOWING EXHIBITIONS, VIZ:—

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EAU DE COLOGNE of the **"NUN"** (so-called), manufactured by any firm other than the above, is spurious, and an infringement of registered proprietary rights.

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	Duty Paid, Net.	In Bond.		Duty Paid, Net.	In Bond
No. 1.—Half Shorts	8/6	5/6	No. 4.—Long Green Flasks	16/-	11/-
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Small Cases assorted to order (of not less than £3 value in bond) delivered free freight, less 7½ per cent. discount.

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ANOTHER HANDSOME SHOW-CARD

IN 15 COLOURS, FRAMED, NOW READY,

Will be sent, Carriage Paid, also Counter Bills, with Name and Address of Agent, on application.

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1s., 2s. 6d., 3s. 6d., and 5s. 6d. per Bottle, from Chemists, Hairdressers, and Perfumers all over the world.

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JAMAICA EXHIBITION.

A PURE AND PERFECT ARTICLE FOR Teeth, Gums, and Breath.

PURILINE

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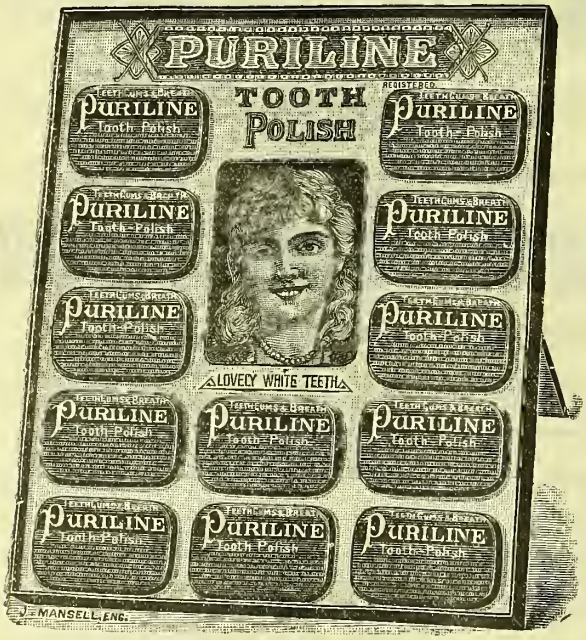
TOOTH-POLISH

Will purify and beautify the Teeth with a pearly whiteness; polish the enamel; prevent tartar; destroy all living germs, and keep the mouth in a delicious condition of comfort, health, purity, and fragrance. Non-gritty, and absolutely pure and harmless to use. Price One Shilling, in handsome Enamel Box.

The POPULAR DENTIFRICE, which Sells at Sight,

Handsomely put up in Show-cases, as here shown. Printed in Twelve Colours. An ornament to any window.

Price 7/6 per dozen, of all Wholesale Houses.



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MANICURE SPECIALITIES,

Certified as innocuous by eminent English and American Chemists.

	Retail	Wholesale per doz.
CERALINE. For tinting Finger Tips, Face and Lips	2/6	18/-
POUDRE LUSTRALE. Gives a brilliant shell-like transparency to the Nails	2/6	18/-
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NAIL OLEATE. Preserves and gives a brilliant polish to the Nails, and prevents Hangnails, &c.	1/6	10/6
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ORANGE WOOD STICKS.

A valuable novelty introduced in Dr. Paul's system of Manicure to apply the "Cleansing Fluid" under the free margin of Nails, and thus avoid the danger of scratching with steel instruments, 7/- per doz. bundles.

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On Orders of **3 doz.** Through any Wholesale House, or direct to

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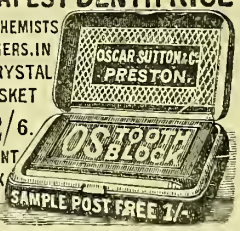
ALSO IN PATENT METALLIC BOX PRICE 1/-



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Pure Lard	/11 lb.
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Neatsfoot Oil	1/6 ,,
Trotter Oil	1/6 ,,
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EWEN'S

Violet Powder	/10 lb.
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Pomades	3/6 ,,
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TOILET AND MEDICATED SOAPS OF ALL KINDS.

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SUPERFATTED MEDICINAL SOAPS

PREPARED FROM PRESCRIPTIONS AND UNDER THE CONSTANT CONTROL OF

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SUPERFATTED SALICYLIC SOAP.
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For the same cases as in the three first-mentioned soaps.

SUPERFATTED SUBLIMATE SOAP, ½ AND 1 %.
As Disinfecting Soap.

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Pure Extract Pepsine c/c	(French Pharmacopœia) standard	50	26/6	per lb. net.
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A HANDSOME COUNTER MAHOGANY SHOW CASE

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The most delightful and delicately perfumed Lozenge ever produced; have an immense sale.

With 4 lbs. of these Lozenges we give one of Mellin's Patent White-glass Silver Top Screw-stoppered Bottles.

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FOR SINGERS AND PUBLIC SPEAKERS.

DIGESTIVE DINNER TABLETS,

Composed of Bismuth, Cardamom, Soda, Rhubarb, Ginger, &c.

CHOCOLATE WORM CAKES,

Very palatable and unusually attractive.

Packed in Tins, each containing 3 doz., 6 doz., or 12 doz. Cakes. Retailed at One Penny each.

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Contain Calomel, Jalap, and Santonine (flavoured with Raspberry), are palatable and very effective.

As they will keep in any climate, a steadily increasing demand is made for them for EXPORT.

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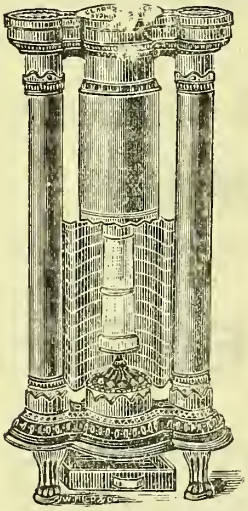
(CLARK'S PATENT).

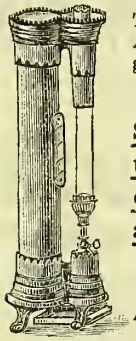
A Necessary for all Invalids. A Comfort to Everybody.

NO FLUE REQUIRED. FREE FROM SMELL OR SMOKE.



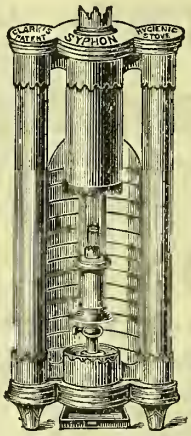
All injurious vapours are reduced to harmless liquid inside the Stove, and passed out at foot into a tray provided for that purpose.

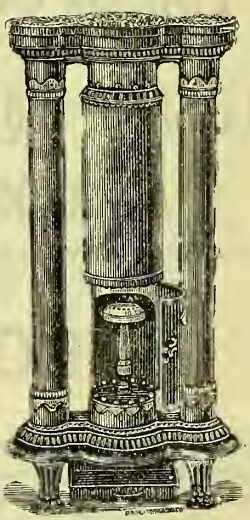
For use in Hospitals, Sick Chambers, Bedrooms, Halls, Conservatories, Schools, Shops, &c.



They give a Pure, Equable, and Agreeable Heat, which can be graduated and sustained at the will of the user.

Specially suitable for patients suffering from Bronchial affections, as a moist atmosphere is obtainable when required.





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GOOD PROFIT GUARANTEED.

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CONTAINS THE

VERY BEST STARCH, BORAX, GUM, WAX, ETC.

as well as the STARCH GLOSS.

Saves TIME, LABOUR and UNCERTAINTY, as in it are combined, in their PROPER PROPORTIONS, *all ingredients* necessary to produce BEAUTIFUL WHITE GLOSSY LINEN.

CHANCELLOR'S *Plate Powder*

EASIEST, QUICKEST, CHEAPEST, BEST.

READ THIS.—"I and my daughters think it the *most perfect powder ever used* for plate and silver. I am an old housekeeper of OVER 50 YEARS' EXPERIENCE, and have *tried many* others but *not any to equal yours.*" A. M. Lindley, 13 Grosvenor Villas, Tufnell Park, N.

Your Customers will say this if you give them the chance by taking 1 gross threepenny boxes.

C. CHANCELLOR & CO., 3 CHARTERHOUSE BUILDINGS, LONDON, E.C.

AS A POLISH THE CLEANEST, BRIGHTEST, AND BEST.

PYN-KA

THE POLISHING TABLET (Unsurpassed). AWARDED GOLD MEDAL.

Cleans with a Brilliant Polish Brass, Copper, Silver, Gold, White and other Metal, Electroware, Glassware, and other domestic articles. For Restaurants, Hotels, Bars, and Bicyclists.

TESTIMONIAL FROM A LADY.—"Your 'PYN-KA' Sample is the best I have tried, and we shall use no other cleaning preparation in our house. It will, I am convinced, supersede all other Polishing Pastes."

For Wholesale Terms apply to the Sole Vendors— **THE PYN-KA SYNDICATE, LIMITED, 41 LORD ST., LIVERPOOL.**

THOS. GUEST & CO.

City Works, Carruthers St., MANCHESTER.

MAKERS OF ALL DESCRIPTIONS OF MEDICATED LOZENGES.

B.P., T.H. Ph., and General Proprietary Lozenges. Finest Gum Jujubes and Pastilles—Glycerine and Black Currant, &c. Granular and all other Effervescing Preparations. Boiled Sugars, Floral Tablets (1892).

BEFORE BUYING ANY OF THE ABOVE, PLEASE SEND FOR SAMPLES AND COMPARE.

Trade Notice.] **[Trade Notice.**

ATKINSON & BARKER'S

ROYAL INFANTS' PRESERVATIVE.

Established by 90 years' experience as a safe and effective Medicine.

Sold universally by Chemists and Patent Medicine Dealers.

WHOLESALE AND EXPORT ORDERS SUPPLIED FROM THE MANUFACTORY—

11 RUSSELL STREET, DOWNING STREET, MANCHESTER.

SHOW CARDS AND BILLS ON APPLICATION.

WOODWARD'S

"GRIPE WATER"

TRADE MARK.

TRADE MARK

NOTICE

The Proprietor guarantees that "WOODWARD'S GRIPE WATER" contains NONE of the SCHEDULED POISONS.

FOR WHOLESALE AND SHIPPING TERMS APPLY

THE PROPRIETOR, CHAUCER STREET, NOTTINGHAM.

41

SECOND SEASON.

FURFELT Solport Bros.

SOLPORT'S

"FURFELT"

FURFELT Solport Bros.

CHEST PROTECTORS.

Made from the Softest Natural Undyed Lamb's Wool incorporated with the Fur of the Grey Coney, and adjudged by the Trade and its press to be

"AN IDEAL CHEST PROTECTOR."

PRICES:—

	No. 0	1	2	3	4	5	6	
Single ...	5/6	6/6	9/-	12/-	15/6	20/-	25/-	per doz.
Double ...	12/-	15/-	20/-	25/6	34/-	42/6	52/-	„
Vest Shape...	16/6	22/6	30/-	37/6	46/6	58/6	70/-	„

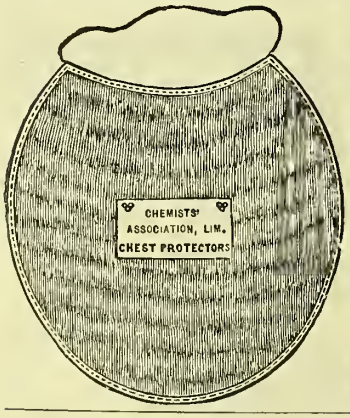
FURFELT Solport Bros. SOLPORT BROS. FURFELT Solport Bros.

66 Shaftesbury St., New North Road,

LONDON, N.

AND OF ALL WHOLESALE HOUSES.

CHEST PROTECTORS & RESPIRATORS.



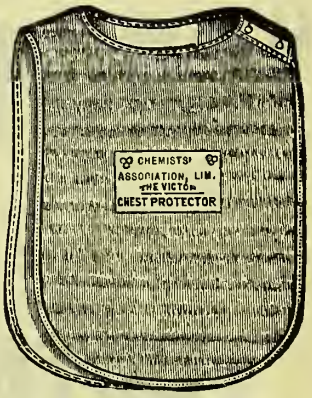
CHEST PROTECTORS.

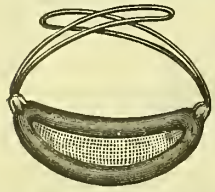
	No. 0	1	2	3	4	5	6	
FELT (Scarlet)—								
Single	5/-	6/3	7/8	9/-	11/6	15/-	20/-	doz.
Double	11/6	14/-	18/-	22/-	26/6	35/-	44/-	„
"The Eclipse" (Vest Shape)	—	17/6	23/6	31/6	39/-	48/-	56/-	„
NATURAL WOOL—								
Single	5/6	6/9	8/6	10/-	12/6	16/6	22/-	„
Double	12/6	15/6	20/-	24/-	29/-	39/-	48/6	„
"The Eclipse" (Vest Shape)	—	19/3	26/-	34/6	43/-	53/-	62/-	„
CHAMOIS & FLANNEL—								
Single	5/3	8/2	11/-	12/10	15/3	19/-	—	„
Double	—	19/-	23/9	29/6	36/-	46/-	—	„
"The Eclipse" (Vest Shape)	—	26/-	35/-	47/-	58/-	72/-	84/-	„

SAMPLES ON APPLICATION.

Subject to Special Discounts as under: –

X 5 per cent. on orders of less than £5 worth.
10 „ „ „ £10 worth and upwards.
15 „ „ „ £25 „ „
20 „ „ „ £50 „ „ X





RESPIRATORS (Non-corrodible Metallic).

LADIES' OR GENTLEMEN'S (*as Illustration.*)

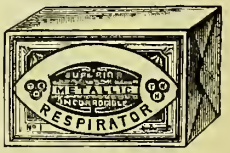
No.	1	2	3	4	5	6	7	8	9
Per doz.	7/6	11/6	13/3	19/-	22/-	28/-	42/-	47/-	53/-

All other kinds kept in Stock.

N.B.—A Mahogany Glass Show Case presented with first orders of not less than £2 assorted.

Subject to Discounts as under :—

5 per cent. for orders of less than £2 worth. | 12½ per cent. for orders of £10 worth & upwards.
10 „ „ „ £5 worth & upwards. | 15 „ „ „ £25 „ „
20 per cent. for orders of £50 worth and upwards.



THE CHEMISTS' ASSOCIATION, LIMITED,

Telegraphic Address— "BEATROP LONDON."

CURTAIN ROAD, LONDON.

Telephone No. 11,391.

42

SYR. HYPOPHOS. CO., FELLOWS

CONTAINS THE ESSENTIAL ELEMENTS of the Animal Organisation—Potash and Lime;

THE OXIDISING AGENTS—Iron and Manganese;

THE TONICS—Quinine and Strychnine;

AND THE VITALISING CONSTITUENT—Phosphorus: the whole combined in the form of a Syrup with a **SLIGHTLY ALKALINE REACTION.**

IT DIFFERS IN ITS EFFECTS FROM ALL ANALOGOUS PREPARATIONS, and it possesses the important properties of being pleasant to the taste, easily borne by the stomach, and harmless under prolonged use.

IT HAS GAINED A WIDE REPUTATION, particularly in the treatment of Pulmonary Tuberculosis Chronic Bronchitis, and other affections of the respiratory organs. It has also been employed with much success in various nervous and debilitating diseases.

ITS CURATIVE POWER is largely attributable to its stimulant, tonic, and nutritive properties, by means of which the energy of the system is recruited.

ITS ACTION IS PROMPT; it stimulates the appetite and the digestion, it promotes assimilation, and it enters directly into the circulation with the food products.

The prescribed dose produces a feeling of buoyancy, and removes depression and melancholy; *hence the preparation is of great value in the treatment of mental and nervous affections.* From the fact also that it exerts a double tonic influence, and induces a healthy flow of the secretions, its use is indicated in a wide range of diseases.

NOTICE—CAUTION.

The success of Fellows' Syrup of Hypophosphites has tempted certain persons to offer imitations of it for sale. Mr. Fellows, who has examined samples of several of these, FINDS THAT NO TWO OF THEM ARE IDENTICAL, and that all of them differ from the original in composition, in freedom from acid reaction, in susceptibility to the effects of oxygen when exposed to light or heat, IN THE PROPERTY OF RETAINING THE STRYCHNINE IN SOLUTION, and in the medicinal effects.

As these cheap and inefficient substitutes are frequently dispensed instead of the genuine preparation, physicians are earnestly requested, when prescribing the Syrup, to write "Syr. Hypophos. FELLOWS."

As a further precaution, it is advisable that the Syrup should be ordered in the original bottles (4/- or 7/-): the distinguishing marks which the bottles (and the wrappers surrounding them) bear can then be examined, and the genuineness—or otherwise—of the contents thereby proved.

WHOLESALE AGENTS—

BURROUGHS, WELLCOME & CO., SNOW HILL BUILDINGS, LONDON, E.C.

A GREAT SUCCESS!!

BAILEY'S SUSPENSORY BANDAGES.

A. B. C. SYSTEM.

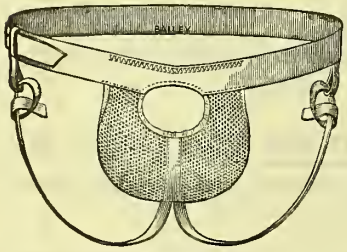


Fig. 1.

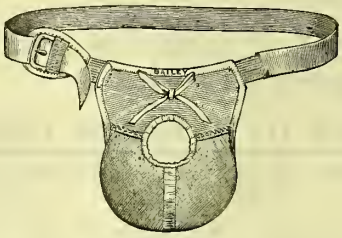


Fig. 2.

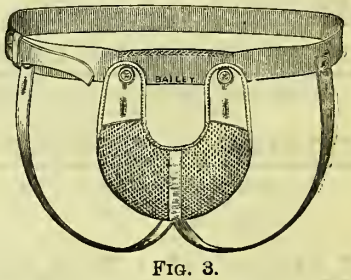


Fig. 3.

Cabinet of 2 dozen assorted, **30/-** USUAL DISCOUNT.

TESTIMONIAL.

The Foregate, WORCESTER

GENTLEMEN,—Please repeat our last order for "Suspensory Bandages." We think your idea of arranging the sizes and qualities by the use of numbers and letters a very excellent one, as it is most convenient to the Chemist in ordering, and we find our customers make use of your method. It brings us many repeat orders.

Yours faithfully, ANDERSON & VIRGO.

W. H. BAILEY & SON, 38 OXFORD ST., LONDON, W.

TELEGRAPHIC ADDRESS—"BAYLEAF LONDON."

ESTABLISHED 1830.

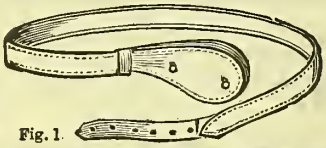


Fig. 1.

TRUSSES.

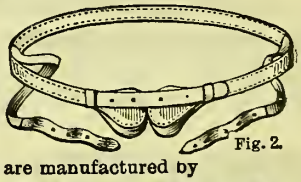


Fig. 2.

The Best and Cheapest Trusses of all kinds in the Wholesale and Export Market are manufactured by

LINDSEY & SONS.

ELASTIC STOCKINGS, SUSPENDERS, AND SURGICAL BANDAGES OF ALL KINDS.

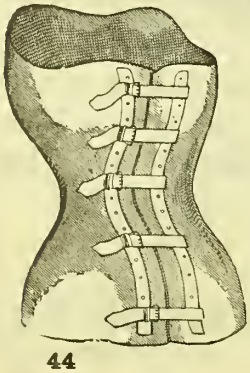
WHOLESALE AND EXPORT. THE LARGEST SHIPPERS IN THE TRADE.

ILLUSTRATED PRICE LIST POST FREE TO ANY ADDRESS.

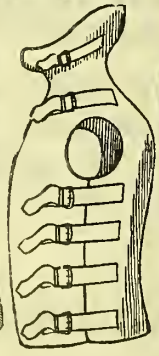
32 LUDGATE HILL, and 40 GRACECHURCH STREET, E.C.

COCKING'S ADAPTABLE PORO-PLASTIC JACKETS AND SPLINTS. Patentee and Sole Manufacturer, **J. T. COCKING, PLYMOUTH.**

Jacket.



Cervical Jacket, No. 1.



Cervical Jacket, No. 3.

JACKET
(in cases of slight deformity

INSTRUCTIONS FOR MEASUREMENT

Circumference at axilla.
" waist.
" hips.
Length from axilla to great trochanter.

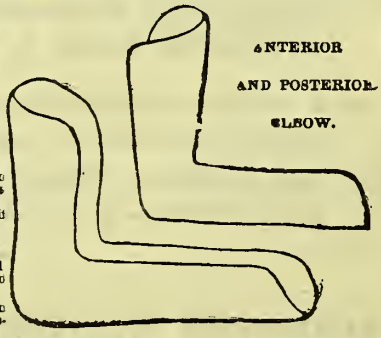
In severe angular cases circumference over apex of curve, position of ditto, and contour should be given; in lateral cases a description of the case.

In all cases it must be stated if for male or female.

CERVICAL JACKETS

Same measurements required and circumference at neck, and length from neck to axilla.

Any part of the Jacket can in the process of manufacture be left soft.



A FULL LIST OF SPLINTS AND PORO-PLASTIC IN SHEETS MAY BE HAD ON APPLICATION.

"A PERFECT BLAUD'S PILL."

—*Chemist and Druggist.*

To prepare Ferrous Carbonate in a perfectly pure and unoxidised state it is absolutely essential that the salts necessary for its production be kept apart until required for use, otherwise decomposition must and does occur, owing to the impossibility of eliminating the one molecule of water from the ferrous sulphate, and also to the hygroscopic tendency of the salts.

"An Ounce of Fact Worth a Pound of Theory."

Prove this for yourself by taking dried exsiccated Ferrous Sulphate and Sodium Carbonate and mixing in an airtight stoppered bottle. In a few days the salts change from creamy to the reddish-brown colour of the inert oxysalts.

"BI-PALATINOIDS" (*by Royal Letters Patent*)

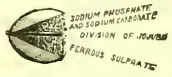
Are a practical and scientific way out of the difficulty. They form the desired salt in the stomach in a perfectly fresh state. They are not more expensive than the many preparations of Blaud's pill, &c. (not imitations, for the law protects originality), upon the market. They command a ready sale. Ferrous Arseniate, Phosphate, and Hypophosphite are also prepared pure by the same means.

'PALATINOID' & 'BI-PALATINOID'

"PALATINOID" OPENED.

"BI-PALATINOID" (FERROUS CARBONATE)

"BI-PALATINOID" (FERROUS PHOSPHATE)



Before immersion in water. After three minutes' immersion in water at normal temperature of stomach.

OPPENHEIMER, SON & CO., LTD., 14 WORSHIP STREET, E.C.

A NON-TOXIC ANTISEPTIC FOR BOTH INTERNAL AND EXTERNAL USE.

LISTERINE.

NON-TOXIC NON-IRRITANT, NON-ESCHAROTIC—ABSOLUTELY SAFE, AGREEABLE, AND CONVENIENT.

FORMULA.—LISTERINE is the essential antiseptic constituent of Thyme, Eucalyptus, Baptisia, Gaultheria and Mentha Arvensis, in combination. Each fluid drachm also contains two grains of refined and purified Benzo-boracic Acid.

DOSE.—Internally: One teaspoonful three or more times a day (as indicated), either full strength, or diluted, as necessary for varied conditions.

LISTERINE is a well-proven antiseptic agent—an antizymotic—especially useful in the management of catarrhal conditions of the mucous membrane, adapted to internal use and to make and maintain surgical cleanliness—asepsis—in the treatment of all parts of the human body, whether by spray, injection, irrigation, atomization, inhalation, or simple local application, and therefore characterized by its particular adaptability to the field of

PREVENTIVE MEDICINE—INDIVIDUAL PROPHYLAXIS.

LISTERINE destroys promptly all odours emanating from diseased gums and teeth. It is a perfect tooth and mouth wash, Indispensable for the Dental Toilet.

DISEASES OF THE URIC ACID DIATHESIS. Lambert's Lithiated Hydrangea. **RENAL ALTERATIVE—ANTI-LITHIC.**

FORMULA.—Each fluid drachm of "LITHIATED HYDRANGEA" represents thirty grains of FRESH HYDRANGEA, and three grains of CHEMICALLY PURE Benzo-Salicylate of Lithia. Prepared by our improved process of osmosis. It is INVARIABLY of DEFINITE and UNIFORM therapeutic strength, and hence can be depended upon in clinical practice.

DOSE.—One or two teaspoonfuls four times a day (preferably between meals).

Close Clinical observation has caused LAMBERT'S LITHIATED HYDRANGEA to be regarded by physicians generally as a very valuable Kidney Alterative and Anti-lithic agent in the treatment of

Urinary Calculus, Gout, Rheumatism, Cystitis, Diabetes, Hæmaturia, Bright's Disease, Albuminuria, and Vesical Irritations generally.

REALIZING that in many of the diseases in which LAMBERT'S LITHIATED HYDRANGEA has been found to possess great therapeutic value it is of the highest importance that suitable diet be employed. We have had prepared for the convenience of physicians

DIETETIC NOTES,

suggesting the articles of food to be allowed or prohibited in several of these diseases. A book of these Dietetic Notes, each note perforated and convenient for the physician to detach and distribute to patients, supplied, upon request, together with literature fully descriptive of LISTERINE and LAMBERT'S LITHIATED HYDRANGEA.

S. MAW, SON & THOMPSON, 7 to 12 Aldersgate Street, London, E.C.,

British Agents for the Products of LAMBERT PHARMACAL CO., St. Louis, U.S.

CAPSULED "McK. & R." PILLS.

McKesson & Robbins : Originated 1870 : New York.

WHY SHOULD THE "McK. & R." PILLS BE PRESCRIBED?

1. Because they are prepared from materials of the highest quality only.
2. Because they are made according to the B.P. or other Standard Authorities, and therefore all the combinations are well tried and of recognised value.
3. Because they are taken pleasantly—being tasteless—and readily, being ovoid in form.
4. Because they are not subjected at any stage of preparation to the injurious action of heat.
5. Because the coating of *pure transparent gelatine* preserves the contents from oxidation.
6. Because they are always soluble, and the contents soft and quickly disintegrated.

LIST OF PRINCIPAL CAPSULED PILLS.

Aloes, all the B.P. combinations ..... 5 gr.
Aloes, Dilute (Dr. Hall Dinner Pill) ..... 4 gr.
Aloes Barb. | Pulv. Ext. Glycyrrh.
Saponis Pulv. | Theriaca, āā ..... 1 gr.
Aloes and Nux Vomica—
Aloes Soc. ..... 1½ gr. | Ext. Nucis Vom. .... ½ gr.
Aloin ..... 1/10, ¼, ½, 1 gr.
Aloin, various combinations.
Anti-Dyspepsia (Fothergill)—
Strychninæ ..... 1/20 gr. | Pulv. Ipecac. ..... 2-3 gr.
Pulv. Piper Nig. ..... 1½ gr. | Ext. Gent. ..... 1 gr.
Arsenious Acid ..... 1-20, 1-50 gr.
Asafœtida, U.S. and B.P. ..... 5 gr.
Atropine ..... 1-100, 1-300 gr.
Blue Pill, B.P. ..... 1, 2, 3, 5 gr.
Blue Pill, with Colocynth and Hyoscyam. ..... 5 gr.
Calcium Sulphide ..... 1-10, 1-4, 1-2, 1 gr.
Calomel, Colocyn., and Hyosc. ..... 5 gr.
Calomel Co., B.P. ..... 5 gr.
Camphor and Hyoscyam ..... 2 gr.
Camphoræ. | Ext. Hyoscy., āā ..... 1 gr.
Cannabis Indica ..... 1-4, 1-2 gr.
Cascara Sagrada ..... 3 gr.
Cathartic Comp., U.S.P.
Ext. Jalap ..... 1 gr. | Hyd. Subchlor. ..... 1 gr.
Ext. Coloc. Co. .... 1 1-3 gr. | Gamboge ..... 1-4 gr.
N.B.—The ready solubility of the "McK. & R." Pills is readily proved by taking a dose of these.
Colocynth Comp., B.P. ..... 4, 5 gr.
Colocynth, other combinations.
Copaiba Compound—
Cubebæ Pulv. ..... 2 gr. | Mass. Copaib. ..... 1 gr.
Ferri Sulph. Exsic. .. 1-2 gr. | Tereb. Venet. .... 1 1-2 gr.
Corrosive Sublimate ..... 1-30, 1-20, 1-10 gr.
Croton Oil ..... 1-2 gr.
Diuretic—
Ext. Buchu, Potass. Nitrat. ..... 1 gr.
Scillæ Pulv. ..... 1-2 gr.
Emmenagogue—
Ferr. Sulph. Exsic. ..... 1 1-2 gr.
Thus, American ..... 1 1-2 gr.
Aloes Socot. ..... 1-2 gr.
Ergotin ..... 3 gr.
N.B.—Each Pill = 30 gr. ergot or 30 ms. fl. extract. This form is more reliable and uniform in effect and more agreeable than the liquid preparations.
Euonymin ..... 2, 3 gr.
Iodoform and Iodoform with Iron ..... 1 gr.
Ipecac. ..... 1-4, 5 gr.
Ipecac. Co. ..... 5 gr.
Ipecac. and Squill, B.P ..... 5 gr.
Iron Pill, B.P. Add. ..... 3, 5 gr.
Iron Arseniate ..... 1-8 gr.
Iron reduced by Hydrogen (Quevenne) ..... 1, 4 gr.
Iron and Quinine Citrate ..... 2 gr.
Laxative, Vegetable—
Res. Podoph. | Ext. Coloc. Co. ..... 1 gr.
Ext. Hyoscy. | Jalapæ
Ext. Tarax, āā ..... 1-4 gr. | Res. Leptand. āā .... 1-2 gr.
Ol. Menth. Pip.
Mercury, Biniodide ..... 1-16 gr.
Mercury, Proto-iodide ..... 1-20, 1-16, 1-8, 1-4 gr.
N.B.—Made from the absolutely pure *yellow* impalpable powder, free from mercury and from biniodide.
So-called "green" proto-iodide contains uncombined mercury.
Mercury with Chalk ..... 1 gr.
Morphine Muriate ..... 1-8, 1-4 gr.
Nitro-Glycerine ..... 1-200, 1-100, 1-50 gr.
Opium ..... 1 gr.
Opium and Camphor ..... 1 gr.
Opii Pulv. ..... 1 gr. | Camphoræ ..... 2 gr.
Pepsin, Pure ..... 1 gr.
Phosphorus ..... 1-100, 1-50, 1-30 gr.
N.B.—In no kind of Pill are the advantages of the "McK. & R." method better exemplified or more in request. No other brand of Phosphorus Pills is equally reliable for the administration of the unoxidised medicament.
Phosphorus and Iron—
Phosphor. Pur. .... 1-50 gr. | Ferr. Redact. ..... 2 gr.
Phosphorus, Iron, and Quinine—
Phosphor. Pur. .... 1-100 gr. | Ferri Carb. ..... 1 gr.
Quininæ Sulph. ..... 1 gr.
Phosphorus and Nux Vomica—
Phosphor. Pur. ..... 1-50 gr. | Ext. Nucis Vom. .... 1-4 gr.
Phosphorus and Quinine—
Phosphor. Pur. ..... 1-50 gr. | Quininæ Sulph. ..... 1 gr.
Phosphorus and Valerianate of Zinc—
Phosphor. Pur. ..... 1-50 gr. | Zinci Valer. ..... 1 gr.
Picrotoxin ..... 1-80 gr.
Podophyllin ..... 1-8, 1-4, 1-2 gr.
Quinine, Bisulphate ..... 1-4, 1-2, 1, 2, 3, 4, 5 gr.
Quinine, Sulphate ..... 1-4, 1-2, 1, 2, 3, 4, 5 gr.
Quinine Co. (Anti-Malarial).
Largely prescribed in America with excellent results.
Rhubarb Comp., B.P. ..... 5 gr.
Rhubarb with Blue Pill ..... 5 gr.
Salicylic Acid ..... 2, 5 gr.
Soap Comp., B.P. ..... 5 gr.
Squill Comp., B.P. ..... 5 gr.
Strophanthus ..... 1-20, 1-4 gr.
Strychnine ..... 1-50 gr.
Tonic Laxative (Fothergill)—
Quininæ Sulph. .... 2-3 gr. | Ferri Redact.
Strychn. ..... 1-30 gr. | Ext. Bellad., āā ..... 1-4 gr.
Valerianates, Iron, Quinine, and Zinc.
Warburg's Tincture and the same without Aloes.
Each Pill = 1 fl. drm. of the Tincture.
Zinc Phosphide ..... 1-4, 1-2 gr.
Zinc Valerianate ..... 1 gr.

Special Combinations of 3,000 or more Pills made and Capsuled to order for Hospitals, &c., at Special Quotations.

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DIALYSED IRON (B., W. & CO.).

A pure neutral solution of Peroxide of Iron in the colloid form. Does not injure the teeth or constipate.

It is a preparation of invariable strength and purity, obtained by a process of Dialysation, the Iron being separated from its combinations by endosmosis, according to the law of diffusion of liquids.

It affords, therefore, the very best mode of administering Iron in cases where the use of this remedy is indicated.

Report of the *Lancet*:—"It is, of its kind, a perfect preparation, and is often taken without difficulty when other forms are not well borne. It is the best antidote in cases of acute poisoning by arsenic."

Supplied to the trade ¼-lb. and 1-lb. bottles, at 27*s*. and 42*s*. per doz.

THE MENTHOL ORO-NASAL INHALER.

(As suggested by Dr. McNAUGHTON JONES.)

This little instrument is provided with both an oral and nasal attachment, and consists of a forked glass tube fitted with vulcanite nozzle pieces, and an indiarubber Y-tube with mouth piece. The trunk is filled with absorbent Pine-wood, the medicament—Menthol, Pinol, or Eucalyptia—as the case may demand, being poured in at the wide end until the pine-wood is saturated. The use of either the nasal or oral pieces is amply explained in the directions on each case. The Oro-Nasal Inhaler has proved itself of great value for efficient inhalation in cases of Hay Fever, Rhinitis, Coryza, Catarrh, &c.

Price, complete in case, with Menthol Solution and Gemel's-hair Brush, 3*s*.

BEEF AND IRON WINE (B., W. & CO.).

Highly concentrated strength-giving Tonic Food. Each tablespoonful represents the tonic and stimulent value of one ounce of good Fresh Beef, with one grain of iron in a pure medicinal wine previously freed from tannin.

The *Lancet* reports: "This is a really valuable preparation, and, as far as we know, a novelty. Children, as well as adults, take it easily, and, as its taste is by no means unpleasant, it can hardly fail to attain great popularity."

The *British Medical Journal* reports: "It is a pleasant tonic and mild stimulant; it will be found useful in cases where the use of a blood tonic is indicated.

Supplied to the Trade in ½-lb. and 1-lb. bottles, at 22/- and 42/- per dozen. Retail 2/6 and 4/6 each.

HAZELINE.

A colourless distilled product, containing the volatile active principles of the fresh green twigs and leaves of the Witch Hazel.

Witch Hazel Plant.

PROPERTIES.—*Hæmostatic, Anodyne, and Astringent.*

Prescribed in cases of hæmorrhage from the nose, lungs, womb, rectum, &c. Is a valuable agent in the treatment of bruises, sprains, inflammation, peritonitis, piles, fistula, anal fissures, ulcers, varicose veins, eczematous surfaces, tonsillitis, pharyngitis, nasal and post-nasal catarrh, stomatitis, leucorrhœa, nasal polypi, &c.

DIRECTIONS.—In catarrh or cold in the head, may be sniffed up the nostrils with an equal part of tepid water.

Dose for irritated or inflamed throat and lungs half to one teaspoonful occasionally.

Supplied to the Trade in ¼-lb. and 1-lb. bottles, at 14*s* and 42*s*. per dozen.

HAZELINE CREAM

Is an elegant preparation of the colour and consistence of cream, and possesses the well-known anodyne and astringent properties of Hazeline with the emollient and protective action of Lanoline. This preparation is considered by many medical practitioners to be superior to the ordinary Cold Cream of the pharmacies as an application for *roughness of the skin, and irritation.*

Supplied to the Trade in 2-oz. bottles, or in collapsible tubes, at 14*s*. per dozen; and in 1-lb. jars, at 60*s*. per dozen.

ARTIFICIAL EAR DRUMS (Ward Cousins').

These effective little membranes are highly recommended as a substitute for the natural drum in perforation of the natural membrane, and to assist the hearing in deafness caused by perforation; also as an antiseptic in disease of the middle ear attended with suppuration.

These drums were exhibited and practically demonstrated in the section of Otology at the Leeds meeting of the British Medical Association. They are inexpensive, and may be easily inserted by the patient. The drum while *in situ* causes no discomfort.

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THE PINOL-EUCALYPTIA DRY INHALER.

An Antiseptic Pocket Inhaler.

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Retail price, 1*s*. 6*d*. each; price to the trade, 14*s*. per doz.

GLYCERINUM PEPTICUM (FAIRCHILD).

This Glycerine extract of the peptic ferment possesses every requisite of a concentrated solution of pepsin. It is highly active, uniform and stable, devoid of objectionable odour or taste, is freely miscible without precipitation or cloudiness with all proper menstrua or media, is notably free from all disagreeable qualities and characteristics of peptone solutions. It contains no alcohol or antiseptics other than glycerine of the purest quality.

Twelve minims will be found equivalent in activity to one grain of the best pure pepsin in a dry form that is to be found in the market. It will be found, upon comparative test, of much greater strength than any fluid preparation of pepsin known.

It mixes freely, without precipitation or cloudiness, with all clear liquids with which pepsin is or should be employed.

Pharmacists will appreciate the facility with which the usual fluid preparations of pepsin may, by means of the Glycerinum Pepticum, be quickly and economically prepared, as there is no loss by filtration. It is agreeable to take, and may be mixed with pure water, wine, or any of the usual vehicles.

Glycerinum Pepticum supplied to the trade in 4-oz. bottles, at 22*s*. per doz.; 1-lb. bottles, 72*s*. per doz.

ABOVE PRICES SUBJECT TO USUAL DISCOUNT.

BURROUGHS, WELLCOME & CO., SNOW HILL BUILDINGS, LONDON, E.C.

THE "VASELINE" SOAPS

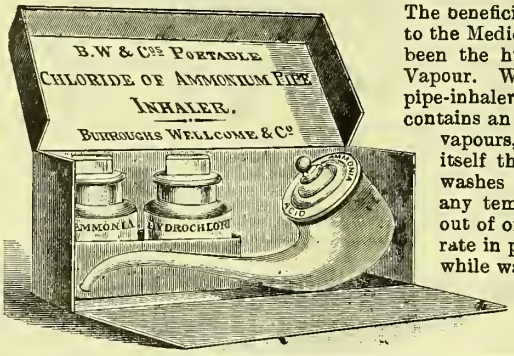
For TOILET, BATH, and NURSERY, are being largely advertised, & command a ready sale on account of their excellence & cheapness.

"VASELINE" SOAP, unscented, each tablet in card case; boxes of 3 dozen tablets.
SUPERFINE ditto, delicately perfumed, card boxes of 3 tablets.
"VASELINE" TAR SOAP, 10 per cent. of tar, card boxes of 6 tablets.

CHESEBROUGH MANUFACTURING CO., 42 HOLBORN VIADUCT, LONDON, E.C.
Proprietors and Sole Makers of the "VASELINE" Preparations.

The "B., W. & CO." PORTABLE PIPE CHLORIDE-OF-AMMONIUM INHALER.

(As designed by Dr. STENSON HOOKER.)



The beneficial effects of inhalations of Ammonium Chloride have been long known to the Medical Profession, and the only objection to the more extensive use has been the high cost of instruments for the inhalation of Ammonium-Chloride Vapour. We have, however, at the instance of Dr. HOOKER, introduced a portable pipe-inhaler. It is composed throughout of earthenware. The bowl of the pipe contains an inner vessel, perforated at the base, to promote combination of the vapours, and is divided down the middle by a septum. In the base of the bowl itself there is placed a sponge, which, when saturated with water, thoroughly washes the fumes. This Inhaler possesses the following advantages over any temporary apparatus:—It is extremely portable, and not liable to get out of order easily. It may be thoroughly cleansed by washing, and is moderate in price. This Inhaler may be employed by patients in any position, or while walking, sitting, or reclining. The Inhaler, together with two stoppered bottles, containing Hydrochloric Acid and Solution of Ammonium for use with the instrument is supplied to the Trade at 5*s.* 6*d.* each.

Burroughs, Wellcome & Co., Snow Hill Buildings, London, E.C.

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DRAPER'S INK
(DICHROIC)

When this Ink is used writing becomes a pleasure.

May be had from all Chemists and Druggists and Stationers.

Can be obtained in London through Messrs. Barclay & Sons, Farringdon Street; W. Edwards & Son, 157 Queen Victoria Street, E.C.; F. Newbery & Son. Newgate Street; S. Maw, Son & Thompson, Aldersgate Street; Ayrton & Saunders, Duke Street, Liverpool; Goodall, Backhouse & Co., Leeds; John Heywood, Deansgate Street, Manchester; James Hemington, 6 Moor Street, Birmingham; Henry Hodder, Broad Street, Bristol.

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See "Chemist and Druggist," December 15th, 1874.

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For Infants, Children, and Invalids.

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HIGHEST AWARD—ADELAIDE, 1887, and MELBOURNE, 1888.

The Lancet describes it as "Mr. Benger's admirable preparation."

The London Medical Record says: "It is retained when all other foods are rejected. It is invaluable."

The British Medical Journal says: "Benger's Food has by its excellence established a reputation of its own."

The Illustrated Medical News says: "Infants do remarkably well on it. There is certainly a great future before it."

Benger's Food is sold in Tins at 1/6, 2/6, 5/, & 10/, by Chemists, &c., Everywhere.

Wholesale of all Wholesale Houses.

THE CHEMIST AND DRUGGIST

ESTABLISHED 1859 AS A MONTHLY. SINCE MARCH, 1886, A WEEKLY JOURNAL.

PRINCIPAL OFFICE, 42 CANNON STREET, LONDON, E.C.

BRANCH OFFICE, FINK'S BUILDINGS, MELBOURNE, AUSTRALASIA.

Subscription 10*s.* per year, payable in advance, including a copy of THE CHEMISTS' AND DRUGGISTS' DIARY next to be published, post free to every country in the world. New subscriptions should date from the commencement of any month.

Supplied only to persons connected with the Trade. Single copies 4*d.* each.

Cheques and Postal Orders should be payable to EDWARD HALSE, and crossed MARTIN'S BANK (LIMITED).

SUPPLIED regularly to every member of the following Societies, who have adopted THE CHEMIST AND DRUGGIST as their official organ.

The Pharmaceutical Society of Ireland.
South African Pharmaceutical Association.
The Pharmaceutical Association of New Zealand.
The Central Association of New Zealand.
Otago Pharmaceutical Association.
The Pharmaceutical Society of Queensland.
The Pharmaceutical Society of South Australia.
Tasmanian Pharmaceutical Society.

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Summary.

ANOTHER instalment of original and tried recipes is given this week.

WE print concise particulars of official appointments open to chemists and druggists.

THE novelties which are described and illustrated this week merit the attention of chemists.

THE Midland Counties Chemists' Association have decided not to continue their pharmaceutical classes.

WE print the list of creditors of the Automatic Scent Fountain Co. (Limited), which is being wound up.

MR. GLADSTONE has been appealed to regarding the appointment of inspectors under the Shop Hours Regulation Act.

WE give a sketch of the new Medical School affiliated with the Mason College, Birmingham, and some particulars of the arrangements therein.

SOME of the humours of technical instruction are described under "Botanical Obscurities" by a contributor in extracts from examination papers.

THE Glamorganshire County Council have decided, notwithstanding the recent Magisterial decision, to prosecute in flagrant cases of beer-salting.

THE Soudan is resuming its old position as the chief source of supply of acacia gum, and we comment upon that fact in our Editorial notes.

PHARMACEUTICAL education in the States is dealt with in an article illustrated with an engraving of the Philadelphia College of Pharmacy's fine new building.

THE Liverpool Justices have decided that the use of the description "Veterinary Infirmary for Horses" by an unqualified person is an infringement of the Veterinary Surgeons Act.

OUR trade report notes the ups-and-downs of the market as usual, and calls attention to the run which appears to be setting in on camphor, the rise in senega, and the continued demand for ipecacuanha.

A REPRESENTATIVE of THE CHEMIST AND DRUGGIST has had an interview with Dr. Reece, who is in charge of the Port of London Sanitary Department at Gravesend. An account of this is given, with a portrait of the doctor.

THE rival parties in the Irish Pharmaceutical Society are very closely balanced. The registration contest, which has been fought very keenly, is narrated in an Editorial note. Arguments for electors are given in our Correspondence section.

WE print further comments upon pulv. aromat. and cholera mixture in our Correspondence section, and amongst other letters one by a German assistant, who defends the cause of his class. Answers to correspondents are exceptionally numerous.

THE Board of Inland Revenue have been defeated at Glasgow in an attempt to get a penalty from a man whose boy had sold a patent medicine, the defendant satisfying the magistrates that he was only a traveller for the goods, and that the sale was only an isolated one.

THE CHEMISTS' AND DRUGGISTS' DIARY FOR 1893 is now being prepared. It will contain as a special feature a remarkable treatise on "Diseases and their Treatment," which has been written expressly for this work by a London physician. This will be found to be of great interest and of notable value, and it will render the 1893 DIARY one of the most popular of the long series. The author is one of the modern school of medical men, and in his advocacy of remedies is most eclectic.

Advertisers will please send in their instructions for the DIARY as promptly as possible. It is a very heavy work to produce, and we must absolutely close for press on October 22. This is necessary in order to enable us to get the work in the hands of all our colonial subscribers before the New Year. Our Australian copies (which form a very large consignment) will be despatched by the mail steamer leaving London on November 4, and to catch that steamer we cannot keep open for advertisements beyond the date mentioned.

AS THE CHEMISTS' AND DRUGGISTS' DIARY is now so universally recognised as the chemist's desk-companion and reference-book, every firm having anything to sell to chemists should be represented in its pages.

English News.

The Welsh Beer-analyses.

At a meeting of the Local Government Committee of the Glamorgan County Council on September 15, at Cardiff, Dr. William Morgan, the county analyst, presented a report in which he alluded to some recent analyses of beer which he had made, some of which, as we lately reported, were the subject of magisterial inquiry. He said the chlorides present in the various samples were equal to from 12½ to 100 grains of common salt per gallon of beer, and in all cases above 52 grains he had certified that in his opinion the amount present was excessive. He relied upon the experience formed during the past eighteen years as public analyst, and the fact that in all the cases heard by the magistrates in his district 50 grains had been recognised as a limit. He had obtained samples of beer from the stores of the large Burton brewers, and in no case did the chlorides reach 50 grains. He maintained that in giving the amonnt of chlorides as equivalent to so much common salt he was doing the least prejudice to the sellers, chloride of sodium being the most harmless form of chloride which could be used. In dealing with those beers he had no knowledge as to the water used; and when the excess of chlorides is attributed thereto it would be desirable that a sample of the water should be taken in order to guide the magistrates. In reply to the Clerk, Dr. Morgan said he did not carry the analysis further than the examination of the amount of chlorine. He got only half-a-pint of beer, and the quantity of ash therein (·3 per cent.) was so minute that he would defy anyone to make a complete analysis of it.

The Clerk: Do you mean to say that Dr. Attfield made his analysis from something more than the sample?

Dr. Morgan: Yes, I do.

The Clerk: Then the evidence ought not to have been allowed. A man may analyse anything given to him, and these people could throw a cake of salt into their wells just before.

After some discussion it was decided, notwithstanding the decisions of the magistrates, to proceed with further prosecutions, and the Clerk was instructed to engage counsel and any expert evidence which he might deem necessary.

Shop-inspectors Wanted.

Mr. Gladstone has sent to the Home Office a letter which he had received from a correspondent who wrote asking the Prime Minister "to cause steps to be taken for the appointment of suitable Shop Hours Regulation Act inspectors," the contention being that "the Act is laughed at by nine ont of every ten employers of shop-assistants, because the Government has refused to appoint a single person to see that the provisions of the statute are carried out."

Midland Counties Chemists' Association.

A Council meeting of this Association was held at the Mason College, Birmingham, on Friday, September 16, Mr. Charles Thompson, President, in the chair, when arrangements were made for the opening meeting in October and the evening meetings during the session. The Secretary announced that several useful papers had been promised. With regard to the classes, it was unanimously resolved:—"That, considering the facilities which exist in Birmingham, the Council do not think it advisable to make any arrangements for classes for pharmaceutical students during the coming session." Mr. Hutton, one of the representatives at Leamington, having resigned his seat on the Council, it was resolved to ask Mr. S. Smith to accept office in his stead.

The members and friends of the Association had a half-day's excursion to Solihull on Wednesday, September 14. The arrangements were carried out by the committee of the recreation section, under the direction of the Secretary, Mr. Sol. Taylor (of Wyleys, Limited). The weather was favourable. A "Married *v.* Single" cricket match was played, and proved an exciting event. The singular people went in first and totalised 53 runs. The bowling of Cripps was found to be particularly destructive. The Benedicts missed reaching their opponents' figures by two only, their last fonr men accumulating 0 between them. Hull, on the Single side, was credited with the top score, 26, no one else reaching double figures. Lawn tennis, bowls, quoits, and other amnsements were also provided. An excellent tea at the George Hotel was shared in by about forty ladies and gentlemen. The revelries wound up with a smoking concert, the President, Mr. Charles Thompson, in the chair.

Corner for Students Half-yearly Prize.

The result of the third month's returns in the special prize competition, as regards the first twenty competitors, is as follows:—

J. A. Hare	293	H. F.	262
Walton Porter	291	Ulexine	261
Belladonna	288	Pepsine	259
A. Lander	281	H. Bowden	258
Zirconium	280	Moyhitt	254
Bee Gee	275	Danwer	252
John	274	H. McL. R.	247
Verax	265	Ornum	247
W. Hood	264	T. K. Dublin	245
A. Howard	263	P. Macrocephalus	236

It will thus be seen that A. Bunsen, Cogito, F. F. A. Tunbridge, Atropine, and L. F. M., who held places in the first twenty last month, have now dropped out, giving way to H. F., Ulexine, H. McL. R., Ornum, and P. Macrocephalus.

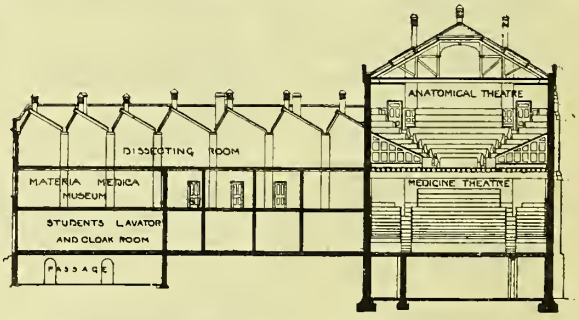
Mr. Vogt, the winner of the first prize this month, is a new competitor.

A Jury Thinks Ammonia should be Labelled "Poison."

At an inquest held at Hindley, Wigan, on September 15, before Mr. Brighouse, Connty Coroner, it appeared that the wife of a coachman had in ignorance drunk some of the contents of a bottle of ammonia. To a verdict of accidental death the jnry added the presentment "that persons ought not to be allowed to sell ammonia without attaching a label, to the bottle pointing out that it is a poison and dangerons to life."

Medicine at Mason College, Birmingham.

At the end of this month the Faculty of Medicine, hitherto forming part of the Qneen's College, Birmingham, will be honsed in Mason College, to which college the Faculty has been entirely transferred. The new buildings for the medical school form two attached blocks, separated from the existing college by a qnadrangle, but communicating with it by a covered bridge. The arrangement of the



plan is L-shaped, one of the blocks containing, on the basement floor, a gymnasium and other rooms; on the ground-floor a medicine theatre, 52 feet by 45 feet, with seats for 326 students, and over it, on the first floor, an anatomical theatre, 45 feet by 36 feet, with seats for 230 students. Adjoining each theatre are convenient preparing and professors' rooms and lavatories. The theatres are approached by ample staircases of stone and iron, and every part is well lighted. The other block contains the working-rooms and museums. In the basement are spacious anatomical stores, servants' latrines, &c. The buildings contain materia medica, public health and anatomical, and dental museums, as well as a bacteriological laboratory, and every modern convenience for teaching medical science. The session is to be opened on September 30, when Sir George Humphry, M.D., F.R.S., will deliver an inaugural address.

Drug-contracts.

Mr. Balchin, chemist, of High Street, Gosport, has obtained the contract for the supply of sanitas soap at 31*s.* 9*d.* per cwt., and carbolic soap at 30*s.* 6*d.* per cwt., to the Alverstoke Union for the ensuing half-year.

The Sheffield Guardians, by advertisement, invited "chemists and druggists within the Union" "to state what discount they would allow from the wholesale lists of Messrs. Evans, Lescher & Webb and S. Maw, Son & Thompson.

At the last meeting of the Plymouth Board of Guardians it was decided that the Dispensary Committee should consider all tenders for drugs, ales, wines, and spirits.

The Bishop Auckland Board of Guardians have accepted the tender of Mr. Thorburn for the supply of cod-liver oil and quinine to the Union Workhouse.

The Ludlow Board of Guardians on Monday accepted the tender of Mr. F. W. Smith, Castle Street, Ludlow, for the supply of drugs to the Workhouse for the ensuing half-year.

The Dinner-season Beginning.

The annual dinner of the Westminster College of Chemistry and Pharmacy is announced for October 11, at the Holborn Restaurant. Captain Cecil Norton, M.P., has promised to take the chair.

Chemists' Dishonest Errand-boys.

At the Market Harborough Petty Sessions, on September 13, Herbert Botterill, errand-boy to Henry Robert Maynard, chemist and druggist, of Market Harborough, was charged with stealing, on August 31, the sum of 2*s.* 6*d.* Prosecutor said he took defendant in his employ last March, and on August 31, from information received, he marked some money and put in the till after the boy had gone to his dinner. Amongst the coins marked were a florin and a sixpence. The boy returned at ten minutes after 1, and witness left him in the shop alone about two minutes. He then went back in the shop and looked in the till, when he perceived that the marked florin and sixpence produced were missing. On being accused of the theft, after protestations of innocence, the boy took the money off a shelf close by, and laid it on the counter. The boy pleaded guilty, and was ordered to receive six strokes with a birch rod.

At the Greenwich Police Court, on Saturday last, William James Jones, 14, errand-boy, of 71 Mill Road, Lewisham, was charged with stealing a shilling, marked money, the property of W. H. Bolton, chemist's assistant, of 61 High Road, Lee. Mr. Bolton said that he and his brother managed the chemist's business of Mr. H. J. Smith, 61 High Road, Lee. The prisoner was employed as errand-boy, and, suspecting him, he placed some marked money in the till, and afterwards missed a shilling. He accused the prisoner of taking it, but he denied the accusation. Afterwards he took 1*s.* 4½*d.* from his pocket, including the marked shilling. The boy said he had saved up the 1*s.* 4½*d.*, and Mr. Bolton gave him a shilling on an errand. He must have changed his own shilling, and not that given him by Mr. Bolton. Mr. Bolton said he would not have given the boy into custody but for the father's interference. Mr. Marsham said that he had some doubt about the case, thinking that the prisoner might possibly have been given the marked shilling. He discharged the prisoner.

Students at Cricket.

The return match between the South London and the Westminster Schools of Pharmacy took place at Nunhead on September 10. "Muter's Eleven" scored 106 in one innings, their captain (Armstrong) topping the figures with 31. "Wills's Eleven" had two attempts, realising 35 in the first innings, and 38 in the second.

A Chemist's Assistant's Vote.

At the Dartford Court for the revision of the Voters' List on Friday the claim of Mr. Percy Knight to be on the list was objected to. Mr. Knight is an assistant to Messrs. Horrell & Goff, chemists and druggists, of High Street, Dartford, and he claimed as a lodger. Mr. Dixon, on behalf of the Liberal side, objected, on the ground that as Mr. Horrell, the senior partner of the firm, resided at Margate, Mr. Knight was only a caretaker, and should have claimed under the service franchise, while Mr. Gales, for the Conservatives, contended that as Mr. Goff, the other partner, did live on the premises the claim was properly made. The claim was allowed.

A Lady and the Cholera.

Miss Annesley Kenealy, a sister of the lady doctor, communicates to the *Nursing Record* of this week some notes on her experience as a nurse in the Eppendorff Hospital, at Hamburg, during the cholera epidemic. She says that one could not possibly forget, when once seen, a typical cholera case. There is nothing like it. The face is pinched and wan, and of a peculiar blackish colour, the limbs are shrunken and shrivelled, the eyes are dull and sunken. There is more or less constant purging, the agonising pain and rice-water stools being most characteristic. Vomiting is, in many cases, even more distressing than diarrhœa, and there is a ravenous thirst. In a later stage the limbs are so cramped that when rubbed one feels the muscles contracted into hard, stiff knots. Very remarkable, too, is the dull, heavy apathy of the patients. They seem perfectly indifferent to their surroundings, and often oblivious of their pain. The thirst is so intense that they clutch, and will by no means let go, the cup until the whole of its contents has been taken. The disease is peculiarly fatal to infants and old people, healthy adults standing a fair chance of recovery. Some cases, however, of strong young people she had seen proved fatal in less than four hours from the beginning of the illness. The dead are removed at once; and it is rather appalling, Miss Kenealy says, to see dead women carried off without ceremony by the porters, but, of course, such scenes are inevitable in time of epidemic. After the descriptions she had read of corpses piled in heaps along the corridors, awaiting burial, and of these heaps diminishing never, because they were hourly added to from the wards, she finds the facts not so gruesome, though, in the horrors of the seizure and the frequency of deaths, they were bad enough. She is told that the state of things represented did actually exist in the early days of the epidemic, but now all the arrangements are admirable. One sentence in Miss Kenealy's article deserves special emphasis. It is:—"Cholera seems to be, like typhus, a disease of the dirty and ill-fed, and those who have been in the habit of drinking stand but little chance of recovery."

"Bound" over Chloroform.

Bowskill, the chemists' assistant, whose supposed attempted suicide with chloroform was reported in THE CHEMIST AND DRUGGIST last week, and who is said to hail from London, was on Tuesday again brought before the magistrates and "bound over."

Grogging.

The Inland Revenue authorities are suspicious that grogging has not yet stopped, and orders have recently been issued to check this by directing that casks carried from one warehouse to another shall occasionally on arrival at their destination be rinsed out with water or spirits of a given strength, and the rinsings tested, the idea being that this will show whether any spirit has been extracted from the wood or not.

The Chemist and his Wife.

The summons at West Ham against W. H. Denn, of Barking Road, the retired chemist who was remanded on a charge of assaulting his wife, was dismissed by the Magistrate when the adjourned hearing was taken, the wife's story being uncorroborated.

Fire.

A rather serious fire occurred on Sunday night on the premises of Mr. T. Homman at 343 Upper Street, Islington.

The Sheffield School of Pharmacy.

The eighth session of the School of Pharmacy conducted under the auspices of the Sheffield Pharmaceutical and Chemical Society will be opened on Thursday evening, October 13, at 6 P.M., when an address to students will be delivered by Alderman W. Gowen Cross, J.P., of Shrewsbury, Vice-President of the Pharmaceutical Society of Great Britain. After the distribution of prizes the annual dinner of the Society will be held at the Masonic Hall.

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To Wake Up the Medical Council.

On Saturday Mr. A. W. Wyatt held an inquiry at Lambeth respecting the death of George Thomas Rossiter, aged 36 years, a farrier. Evidence showed that deceased while talking to a man suddenly staggered and fell to the ground. A local medical man was at once sent for. Mr. Wyatt: Is he in attendance? Dr. Dorin: No, I believe he is a non-qualified man. He is not here. The Coroner: Oh, I suppose he is one of those eighteenpenny cheap dispensary doctors Is there not a society for the prosecution of these unqualified men? Dr. Dorin: There is the Medical Council, but they never take any steps in such matters. They leave it to the public. They never act themselves unless the public take up the prosecution, which, of course, is not worth their while. Dr. Dorin having stated that he had made a *post-mortem* examination of the body, which showed that death was due to syncope and serous apoplexy, the jury returned a verdict accordingly.

Analysts Differ.

At the last meeting of the Lewisham District Board of Works Mr. Laidman, the Board's solicitor, reported the dismissal, with costs against the Board, by the Greenwich police magistrate of summonses for alleged adulteration of butter against two tradesmen, the Somerset House analysts having certified, contrary to the certificate of the Board's analyst, that the samples taken were not adulterated. It was now decided to forward these to the Board's analyst, with a request for his report thereon.

Mr. Sargent's Letters "Not Worth Notice."

At the meeting of the Chesterfield Town Council on Tuesday, a letter was read from a Mr. Sargent as to alleged violations of the Pharmacy Act in the town, and Alderman Booth said that they might look upon this letter as the production of a mind which was not quite correctly balanced. (Laughter.) The writer had an idea that the Pharmacy Act was not properly attended to, and he had written to all the chemists in the town. The letter, he considered, was really not worth notice, and Mr. Hadfield said Mr. Sargent had written a similar letter a year ago. It was resolved that the letter lie on the table.

A Chemist and First Aid.

One night last week, at Acton, a disturbance amounting almost to a riot occurred in consequence of the refusal of a chemist to come down and dress some wounds. A young man named Comerford, with his brother, were walking home when they came into contact with a party of men and women singing to the strains of a concertina. The musical party considered that the Comerfords bad collided with them purposely, and they are alleged to have rather brutally assaulted them. Anyway Charles Comerford was pushed through a plate-glass shop window and severely cut on the head and wrist. He was bleeding freely, and was carried by some sympathisers to the shop of Mr. Lewis, chemist. Mr. Lewis had retired for the night, and, having been made aware of the seriousness of the injuries Comerford had received, he, speaking from an upstair window, declared that the case was one for a doctor, and that he could render no assistance. A large and noisy mob had by this time gathered together, and Mr. Lewis's refusal to come down and attend to the case was received with hoots and howls and other expressions of strong disapprobation. It is stated that Mr. Lewis also refused to throw out a bandage required to stop the bleeding. So strong was the feeling against Mr. Lewis that missiles were thrown at his windows, three panes upstairs and one large plate-glass pane in the shop front being smashed by stones and apples. Ultimately the ambulance was obtained from the police-station, and Comerford was taken first to the residence of Dr. Lingham and afterwards to the West London Hospital, where he remained for nearly a week. Two of his assailants are in custody.

Irish News.

The Coming Election.

The "campaign" goes merrily on, and the druggist and pharmaceutical contingents are endeavouring to outmanœuvre each other. At present the latter seem to have the advantage. What happened at the end of the last Council meeting is told in an Editorial note. Subsequently the pharmacist party requisitioned a special meeting for the election of their nominees for Wednesday, September 21. Accordingly a summons was issued by the Registrar giving the requisite notice (four clear days). On receipt of the notice Mr. Boyd, observing that the associates proposed by himself and Mr. Gibson were not named on the agenda, served a regular "fi. fa." writ on the President (Mr. Hayes) and the Registrar, requiring that the proposed associates should be included in the business of the special meeting. This writ was received by the Registrar after office hours on Friday, September 16 (5.30 P M), and by the President on Saturday morning, whereupon the President directed that a supplemental list of the associates should be issued for the special meeting. This was done with all expedition, and the lists were posted by evening post on Saturday, 17th.

The special meeting was only held on Wednesday. There were present: Mr. Hayes, President; Messrs. Wells, Grindley, Baggs, Evans, Downes, Tichborne, Hodgson, Burnes, Boyd, and Merrin. Mr. Boyd demanded that the list of twelve candidates proposed by himself at the last meeting should be put forward for election, but the President ruled that they had not been legally proposed, no quorum being present at the time. He also ruled that the sole business which could be conducted at the meeting was that for which it had been requisitioned—namely, the election of the candidates proposed by Mr. Wells. Over thirty names had been proposed by Mr. Gibson (who was now absent) at the last meeting, but none of these had paid their subscriptions, and then could not be elected. The result was that ten pharmaceutical chemists and four druggists were elected. This is estimated to leave the pharmaceutical chemists with a majority of about twenty-one.

Candidates for Council.

The following are the new candidates proposed for seats on the Council in opposition to the seven retiring members who seek, and are eligible for, re-election:—Luke J. Healy, druggist and general merchant, Drogheda, proposed by W. F. Moore, Linen Hall, Dublin, seconded by J. J. Dowling, 46 Mary Street, Dublin; W. F. Moore, wholesale druggist (H. Moore & Co.), Linen Hall, Dublin, proposed by Wm. Alexander, Great Strand Street, Dublin, seconded by S. P. Boyd, Bride Street, Dublin; James Hanson, retail druggist, Capel Street, Dublin, proposed by S. P. Boyd, Bride Street, Dublin, seconded by W. F. Moore, Linen Hall, Dublin; Sir Jas Haslett, Kt, wholesale merchant, Belfast, proposed by W. F. Moore, Dublin, seconded by Thos. McMullen, Belfast; S. Turkington, druggist, Cookstown, proposed by Sir Jas. Haslett, Belfast, seconded by Samuel Gibson, Belfast; James McWalter, pharmaceutical chemist, North Earl Street, Dublin, proposed by R. Duggan, Dublin, seconded by M. F. O'Donnell, Dublin.

We are requested by Mr. Stanley Harrington to state that he is not a candidate for election on the Council of the Pharmaceutical Society of Ireland.

The members of the Council who seek re-election are:—Wm. Hayes, President, pharmaceutical chemist; W. F. Wells, pharmaceutical chemist; G. H. Grindley, pharmaceutical chemist; Johnston Montgomery, pharmaceutical chemist; Hy. Conyngham, pharmaceutical chemist; P. Merrin, pharmaceutical chemist; Samuel Gibson, druggist. The nomination of Mr. James McWalter for the Council has been rejected by the President of the Society on the grounds that his seconder was not entitled to so act, not having paid his subscription. Mr. McWalter also suffered through an informality at last year's election.

Tenders for Medicines.

The Board of Guardians of the Armagh Union invite tenders for supply of drugs, &c., to the workhouse and eight dispensaries of the Union, and will consider same on Tuesday, September 27. Tenders will also be considered by the Cork Board of Guardians on September 29 and the Dunshaughlin Board of Guardians on September 27.

Methylated Spirit in Dublin.

Messrs. Boyd & Goodwin assure us that there is no foundation for the statement we published last week that the Dublin

Excise authorities had seized a quantity of methylated spirit on their premises, on the allegation that it did not contain sufficient naphtha.

The Lord Lieutenant's Interference.

We understand that a brisk correspondence is in progress between the President of the Pharmaceutical Society and the Castle in reference to the extraordinary course taken by the latter in remitting penalties imposed under the Pharmacy Act without consultation with the Council.

Scotch News.

Advertising by Soap.

A new method of advertising has been patented by Mr. G. D. Macdongal, public analyst for Dundee. The device consists in injecting into soap by an arrangement of hollow needles, in the form of any lettering or words desired, a solution of a harmless dye. The result is that the marking remains while the soap is used to the thinness of a wafer.

Edinburgh Professors' Salaries.

From a parliamentary paper it appears that the following were the sums earned by the various medical professors during the year ending September 30, 1891:—Prof. Crum Brown (chemistry), 2,519*l.*, less 1,190*l.* for expenses; Prof. Bayley Balfour (botany), 1,785*l.*, less 289*l.*; Prof. Cossar Ewart (natural history), 1,829*l.*, less 320*l.*; Prof. T. R. Fraser (materia medica), 2,431*l.*, less 370*l.*; Sir Douglas Maclagan (medical jurisprudence), 999*l.*, less 252*l.* The richest chair is that of anatomy (Sir William Turner), which yielded 2,984*l.*, less 493*l.* for expenses. The salaries of the professors' assistants absorb most of the expenses. These vary from 50*l.* to 300*l.* It would appear, therefore, that Prof. Crum Brown pays most on this account, he having five assistants at salaries ranging from 50*l.* to 275*l.*

German Yeast and Cholera.

There has been a small scare in Glasgow regarding the use of German yeast, somebody having thrown out the suggestion that it comes from Hamburg, and may consequently be mixed with cholera microbes. Full contradiction to this has been published—viz., the assurance that all the "German yeast" used in Scotland is produced in Scotch and Irish distilleries.

A Picnic.

The members of the Edinburgh Pharmacy Athletic Club held their first picnic on Monday last—the general holiday in Edinburgh—when, along with some friends, the company numbering forty-five, they went to Linlithgow. The outing was very enjoyable. In the first place, the old palace, famous as the birthplace of Mary, Queen of Scots, was visited, and inspected with much interest. After luncheon, served in the Town Hall, a cricket match took place, while boating on the loch was also indulged in. Later on there was some dancing, interspersed with songs by Misses Roberts and Telford, and Messrs. S. Traill and J. P. Gibb.

Heriot-Watt College.

At a meeting of George Heriot's Trust, held on Tuesday, John Gibson, Ph.D. (Heidelberg), Senior Demonstrator of Chemistry, University of Edinburgh, was elected Professor of Chemistry in the Heriot-Watt College, in room of Professor Perkin, who has been appointed successor to the late Professor Schorlemmer in Owens College, Manchester. There were eleven applications for the Edinburgh post.

Dr. Littlejohn on Diarrhœa.

The Edinburgh authorities have taken exceptional precautions to prevent cholera taking a hold in the city, and Dr. Littlejohn, the Medical Officer of Health, has issued a series of hints. In these he says that diarrhœa, and in its severe form, choleraic diarrhœa, admit of immediate treatment by means of drugs. A pill should be administered at once, consisting of the ordinary pharmacopœial "lead and opium pill," with the addition of 1 grain each of camphor and capsicum, to be repeated after every loose motion. This pill should be halved for patients between eight and fourteen years. Above that age the whole pill is the dose. For young children powders should be provided, each containing 1 grain of the chalk and opium powder; one powder to be given for each year of the child's age up to eight years. Dr. Littlejohn's disinfectant consists of powders containing mercuric chloride and ammonium chloride, of each 20 grains, and aniline blue ¼ grain, each to be dissolved in a pint of water.

French Pharmaceutical News.

(From our Paris Correspondent.)

A Fire, alarming in magnitude, has just destroyed the chemical works of Messrs. Gilliard, Monnet & Cartier, at St. Fons, near Lyons. The damaged is estimated at 1,200,000f. (48,000*l.*)

Bordeaux Pharmacists and Co-operative Trading.—The fourth National Congress on co-operative trading was opened last Sunday at Bordeaux, and pharmacists took a prominent part in it. In the evening the medical committee and the syndicate of pharmacists held a joint meeting of welcome in honour of the delegates. A number of speeches were made, including one by M. Dambier, president of the Bordeaux Syndicate of Pharmacists.

A Versatile Pharmacist.—Among the French pharmacists who are seeking laurels in other fields than those belonging to their own profession is M. Alfred Leconte. That gentleman, in addition to having gone into political life and become a deputy for the Department of the Indre, has wandered into the groves of literature and produced a large number of short stories, historical articles and reviews, patriotic and philosophic poems, satires, sonnets, and ballads—all literature, in fact, has become his province. An edition of the pharmaceutical politician's complete literary works, in two volumes, has just been published in Paris. Among the verses are a good many relating to pharmaceutical and chemical subjects.

Poisoning in a Prison.—Some sensation has been caused here on account of the circumstances attending what was at first supposed to be an outbreak of cholera in a prison at Beauvais. Some fifteen prisoners had fallen ill, when it was discovered that they were suffering from poisoning, and not from cholera. It appears that the prison dispenser had, by mistake, given extract of belladonna, instead of extract of walnut-leaves, from which a morning hygienic drink was concocted for the prisoners. The error was discovered by Dr. Lesage, who, while searching to discover the cause of the supposed epidemic, took a teaspoonful of the mixture in a glass of water, and fell down insensible, his life being saved only with the greatest difficulty. The dispenser will be prosecuted.

Still Another Explosion of chemicals occurred in Paris on Friday last, the scene of the disaster being the premises occupied by G. Contela & Cie, well-known wholesale druggists, of 43 Rue des Francs Bourgeois. An employé was engaged in a cellar emptying a cask of benzine, when, by an awkward movement, he brought a naked light in contact with the contents. An explosion immediately took place and the cellar rapidly became ignited. The firemen were soon on the scene. A sergeant, followed by four men, entered the cellar and brought up the unfortunate victim. He was badly burnt on the body and right arm. The Pharmacie du Bow Pasteur forms the frontage of Contela & Cie.'s premises, and there the man was attended to. Meanwhile, a second explosion took place—a large bottle of alcohol, becoming heated, burst, in its turn making new victims. Amongst them were two firemen, Messrs. Engel and Girard, assistant-druggists, and the head of the firm, M. Contela. The fire in the cellar burnt for two hours and caused damage to the extent of 10,000f.

A Singular Anomaly in the administration of justice has just been discovered here, not foreseen at the time the Bérenger law was passed. A pharmacist in the Rue de Kennes discovered, about a month ago, that a laboratory

assistant, who had been in his employ for the past two years, was robbing him of a considerable quantity of medicaments and selling them again at a low price. When the pharmacist had sufficient proof, he prosecuted the thief, and the latter was sentenced, a fortnight ago, to six months imprisonment, but benefited by the Bérenger law. Left at liberty by the terms of this law, the assistant summoned his former employer on Saturday last before the Justice of the Peace of the Sixth Arrondissement for the balance of wages, which, on discovery of the theft, had, somewhat naturally, not been paid. The pharmacist was stupefied to learn that, as a sentence is not inscribed until two months after being passed, and as his unfaithful assistant is at liberty, he has to pay the amount claimed with costs. There is apparently, no appeal against this finding.

THE CHOLERA.—The epidemic in Paris is now on the wane. A reassuring proof of this is that on one day during the present week it is stated that not a single death, from any cause, was reported in a crowded district of Paris (the Eighteenth Arrondissement) which has itself a population approaching a quarter of a million. This confirms the opinion expressed in THE CHEMIST AND DRUGGIST of July 16. The correspondent of THE CHEMIST AND DRUGGIST has been twice called on by an official from the Mairie (Town Hall) of his district as a sequel to the frontier "Sanitary" experience report of last week. This proves that the arrangements for preventing the introduction of cholera are carried out systematically. It is further pleasing to note that the state of the hospitals is so favourable that the officials are arranging to commemorate the September 22 centenary in each hospital.—Mr. Stanhope, the *New York Herald* cholera enthusiast, has been admitted to the Eppendorff Hospital, Hamburg, and has obtained full permission to lead the same life as the cholera patients. This was on Monday. The *Fremdenblatt* of Hamburg states that Mr. Stanhope will remain in the hospital for eight days. He will drink the water of the Elbe, swallowing bacilli with it, and thus prove that he is protected against cholera. But, says our Hamburg contemporary, "We do not understand why he comes to Hamburg to make experiments which could be more easily carried out in Paris, where M. Pasteur would have administered the bacilli. Should Mr. Stanhope outlive his eight days' experience he will have proved nothing in favour of the Pasteur system of vaccination."

Foreign and Colonial News.

THE WHOLESALE DRUG-HOUSES AT ST. LOUIS have under consideration the practicability of closing on Saturdays at noon. Heretofore they have closed at that hour during the four warm months.

DO NOT CONFUSE THE TWO.—It is proposed, says the *Apothecary*, that the contributions to the proceedings of the Columbian World's Congress of Pharmacists shall be mainly of an historical character, showing the beginning, progress, and present status of pharmacy in the various countries. This does not refer to the International Pharmaceutical Conference.

HEAVY FAILURES.—According to the *American Journal of Pharmacy*, at the last meeting of the Pharmaceutical Examining Board of Pennsylvania, in Williamsport, 47 candidates for registered pharmacists and 27 for qualified assistants were examined; 20 of the former and 14 of the latter were successful. This is as bad as we have it in England.

BATTERY-SOLUTION FOR COMMUNION-WINE.—At Amenia, N.Y., one of the officials at a Presbyterian Church placed for the Communion service a wine-bottle containing a battery-solution, in which sulphuric and nitric acid were ingredients, instead of the proper wine. A number of persons partook of the poison with serious, but happily without fatal results in any instance.

A PARACELSUS LIBRARY.—On August 18, died at Frankfort-on-the-Main (this fact has only just become known) Dr. Edward Schubert, the owner of the largest Paracelsus library in the world. He devoted many years of his life to works on Paracelsus and pharmaceutical alchemy, and studiously collected the literary material relating to these subjects. His valuable collection is going to be sold if possible *en bloc*.

A PHARMACEUTICAL MAYOR, CAPE TOWN.—Mr. Johan G. Mocke, of Long Street, Cape Town, chemist and druggist, after several years' prominent service on the Town Council, has this year attained the position of Chief Magistrate. Mr. Mocke was born in Cape Town in 1848, and received his education at the South African College, afterwards entering business in 1866.

A PASTEUR INSTITUTE IN CEYLON.—Mr. J. W. Charles De Soysa, a prominent citizen of Ceylon, has offered the Ceylon Government a contribution of 10,000rs. towards the erection in the island of a Pasteur Institute for the treatment of hydrophobia and the investigation of bacterial diseases generally. The Institute will be called the "De Soysa Pasteur Institute." The Ceylon Government have accepted Mr. De Soysa's offer.

CHICAGO EXHIBITION NOTES.—A supply of mineral spring-water will be laid on for the use of visitors to the show. The water is to be "piped" from Waukesha, in Wisconsin, a distance of 100 miles, and it will be on tap at a cent. a glass.—An offer of $120,000 in cash has been made for the exclusive privilege of selling peanuts at the Exposition.—The nitrate industry of Chile will be illustrated by an elaborate exhibit at the Fair.

AN AMERICAN CHEMICAL-WORKS BURNED DOWN.—The works of the Lancaster Chemical Company, in Lancaster, U.S.A., were recently destroyed by fire. The plant cost $42,000 dollars, and it was almost entirely destroyed. Machinery and stock worth $30,000 went with the building. The insurance is $19,500. Three tramps were seen running from the building in the morning, and it is supposed they fired the works, but no cause for the act can be found.

THE KEELEY CURE.—Hydrochloride of apomorphine is said to be an ingredient in the Keeley "bichloride of gold" cure. This we have, says the *Pharmaceutical Record*, on the authority of one who has compounded large amounts of the whisky employed as an adjuvant to the cure. The feeling of nausea and sickness which follows each dose of the whisky as supplied by the Keeley cure people has usually been ascribed to the action of the atropine and strychnine contained in the hypodermic injection, but the symptoms are more consistent with the effects of apomorphine.

MODERNISING MONTEZUMA'S EMPIRE.—A syndicate of American capitalists has secured an option on the volcano Popocatepetl, in Mexico, which they propose to operate as a sulphur-mine. The volcano is the property of Gen. Sanchez Ochoa, who has worked it on a small scale without modern machinery, securing good returns; but the Americans intend to run an electric railway up the mountain and bring down sulphur, which will be mined on a large scale by modern machinery, and also to utilise the railway by bringing down natural ice to compete with the artificial ice-factories in the city. The sulphur is of excellent quality, and is now only used for making powder for the Mexican army.

THE AMERICAN WHOLESALE DRUGGISTS' CONVENTION.—The National Wholesale Druggists' Association of America holds its annual conference (the eighteenth of its kind) at the Windsor Hotel, Montreal, this week. The programme is as follows:—September 19, first business session, 8 P.M. September 20, second business session, 10 A.M. to 1 P.M., and third business session, 2.30 to 5.30 P.M. President's reception and promenade concert, 8.30 to 11 P.M. September 21, fourth business session, 9.30 to 12 A.M.; excursion on Ottawa River and shooting Lachine Rapids by special steamer, to be followed by a concert in Windsor Hall at 8 P.M. Thursday, fifth business session, 10 A.M. to 1 P.M., and sixth business session, 2.30 to 5.30 P.M.; banquet at 7.30 P.M.

VETERINARY DISPENSARIES IN INDIA.—According to the last report of the Agricultural Department of Bombay there are five veterinary dispensaries in working order in the Presidency, and others are to follow. The dispensaries are in charge of graduates of the Bombay Veterinary College, who are paid by the district Boards. In addition to ordinary

hospital work, their duties comprise the superintendence of Government stallions, attendance at shows, and repression of epidemic disease in the district. When possible, a travelling veterinarian is provided for attendance at epidemics and for work in the villages. "Through these officers," says the report, "much improvement in the treatment of stock should result; they will encourage owners to send difficult cases to the hospital, and they are to report the existence of epidemic disease for the Imperial Bacteriologist."

United States Trade-marks.—The following were registered at Washington on August 30:—"Benger's," for infant's food, by F. B. Benger & Co. (Lim.), Strangeways, Manchester, England; "Renovene," for detergent liquid, by Petersen & Ruge, St. Louis, Mo.; "Henry's Tri-iodides," by Renz & Henry, Louisville, Ky.; "Phenodyne," for analysic preparation, by E. B. Smith, Ipswich, Mass. Registered on September 6:—"Kurum," for tablets for throat and lung diseases, by Kurum Chemical Company, St. Paul, Minn.; "Murline," for hair-curling compounds, by Ada M. Petri, Minneapolis; "Blue Seal," on label, for vaseline, by Chesebrough Manufacturing Company, New York; portrait of a child with a plaster upon its breast, for medicinal plasters, by F. Merz, Brooklyn, N.Y.

U.S. Chemical Patents.—Mr. Paul Volkmann, Elberfeld Germany, for the Farbenfabriken, vormals Fr. Bayer & Co. has obtained a patent for a new process of producing piperazin which consists in treating the dinitroso compounds of diphenylpiperazin, ditolylpiperazin, dixylylpiperazin, dinaphthylpiperazin, or the sulpho-acids or other substitution-products thereof, with sulphurous acid or alkaline bisulphites. Mr. Bruno R. Seifert, Radebeul, Germany, for Dr. F. von Heyden Nachfolger, has also patented a process for converting phenols which are difficultly soluble in water into disinfecting-mixtures which are easily soluble in water. The process consists in taking such mixtures as "crude carbolic acid" (consisting mainly of cresols) and mixing them with water and with a metallic salt of an aromatic compound of the classes of aromatic acids and phenols. The product of the process is also protected.

The Indian Oilseeds Crop.—According to a memorandum on the crops of India issued by the Indian Revenue and Agricultural Department, the exports of oilseeds of all kinds from India as compared with wheat are valued at 1,001·50 and 732·45 lakhs of rupees respectively. These figures represent the average of the ten years ending 1890–91. Broadly speaking, the linseed trade belongs to Calcutta, while rape and mustard are exported chiefly from Bombay. The consignments go in the largest quantities to the United Kingdom, France, Belgium, and the United States. In 1891–92 Germany received a large share of rape. The period of active trade is from March to July inclusive. As is well known from the reports on external trade, the dispatches of vegetable oils, as compared with the foreign exports of seed, are insignificant. The oil chiefly exported is castor oil, which goes principally from Calcutta for lubrication of machinery.

The Indian Ground-nut Season.—With the close of the month of August, says the *Madras Times*, the ground-nut season has come to an end. Only some 550 000 bags have been obtained this year, as compared with 1,300,000 bags in 1891, which gave a bumper harvest with low prices and high freights. The sowings of ground-nuts commence in May and June; and the good rains that have fallen in South Arcot this year give promise of an excellent harvest next time, as everywhere the arachis is growing freely. In the absence of any system of manuring, and from the fact that the ground is yearly cropped with this most exhausting product, it is not to be wondered at that the quality of the Pondicherry ground-nut is inferior to that of Bombay and Senegal, and commands lower prices. If the system is not changed, it is most probable that the local ground-nut will continue to diminish in size, or that some disease will appear and destroy it entirely.

Sulphuric Acid in Brazil.—There is in Brazil only one sulphuric-acid factory; it is established at Rio de Janeiro, and its products are much used in the local calico-printing and mineral-water industries. The acid for these factories costs 190 reis per kilo., including package, which is cheaper than the European product. The Brazilian acid is packed in cases containing each two 30-kilo. demijohns. The Companhia Formicida Paulista, founded at San Paulo in 1890 with a capital of 500,000 milreis, is engaged specially in the manufacture of sulphide of carbon used in the destruction of ants, which are a plague in the country. It will probably make also sulphuric acid for native establishments. The new tariff does not modify the duty on sulphuric acid, which remains as follows:—Pure or colourless, 80 reis per kilo.; impure, 10 reis—duties estimated for both at 15 per cent. *ad valorem*. Tare is fixed as follows:—In earthenware jars, 30 per cent.; in cases, 10 per cent.

The New Opium Regulations in Burmah.—We have already referred to the new opium regulations recently introduced into British Burmah. The principal object of these rules is the prohibition of dealings with adulterated opium. The only kind of opium which may now be legally sold or possessed is raw opium and *beinse*, or refined opium. *Kunbon*, which is a preparation of opium and betel-leaf, and *beinye* and *beinchi*, which are refuse opium, are prohibited. These preparations have been prohibited because it is reported that they are used to allure people to the consumption of opium, whereas people are said to take less readily to the practice when they can procure the pure drug only. Very strict rules are being enforced with regard to the possession of opium by Burmans; but foreign travellers and horse-dealers from beyond India enjoy special privileges in regard to possession of opium. They may have in their possession up to a limit of fifteen tolas for each traveller or horse, provided that such opium is not produced in India and that it is not intended for sale or barter. In Upper Burmah persons specially licensed by the Deputy Commissioner may have in their possession quantities of opium in excess of ten tolas. The persons so specially licensed are dealers in jade and indiarubber, who, from the nature of their employment, are compelled to remain for lengthened periods in remote and unhealthy tracts.

Trade Notes.

Dan Rylands (Limited) have opened a workshop at 3 Dyer's Buildings, Holborn, E.C., in connection with their London showrooms at 62 King William Street, E.C.

The Guy's Tonic Co., of 4 Ludgate Circus, London, E. C. are now sending out a prettily designed slip show-card for window or counter decoration. It is printed in colours by Sir Joseph Causton & Sons. Chemists are invited to apply for a few.

Mr. W. D. Gibb, chemist, Winchester, has been elected a member of the Winchester Town Council, to fill the vacancy caused by the death of one of the members. The election was contested, and Mr. Gibb beat his opponent, a brewer and corn-merchant, by thirty votes.

Spratts (Limited), of Bermondsey, S.E., now have their "pepsinated puppy-meal" ready for the market. The shilling tin is a big bargain, considering the value of the meal as a food for weak or very young puppies; and chemists in "doggie" districts will be able to do good business in the article. It will be noticed that the company have their revised price-list ready, and offer to send copies of it to those who have not yet got it, and who ask for it.

An elegant scarlet-bound price-list comes to us from Messrs. W. H. Bailey & Sons, makers of surgical instruments and appliances, 38 Oxford Street, W. The list is exceptionally well illustrated, and in such departments as trusses, elastic stockings and suspensory bandages (which are made in the firm's own factory) the information given is remarkably full; but in regard to surgical appliances generally we notice that instructions for measurement, &c., are given in all those cases where a chemist may be called upon to take orders, and for that reason the list should be a useful one to have handy. The firm tell us that they will send a copy of the list to any chemist who asks for it.

An Economic Herbarium, comprising all varieties of cultivated crops, is being formed at the Botanical Gardens, Saharunpore, British India.

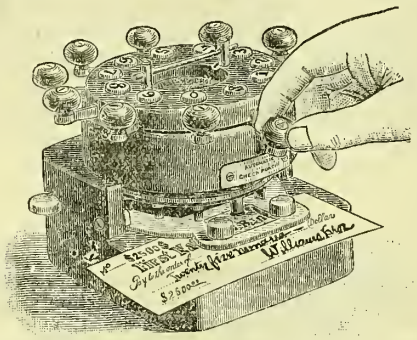
Notes of Novelties.

"THE MOIST TONGUE."

THE German technical journal *Prometheus* describes a new departure in label-dampers which has recently been patented by a firm in that country, and to which the expressive name indicated in the heading of this paragraph has been given. The apparatus consists of a small square holder of transparent glass, which serves as a reservoir for water. In it is a porous block of kieselguhr, rounded at the top, and covered with a small piece of velvet. The water, by the law of capillary attraction, rises to the top of the kieselguhr block, and penetrates the velvet just enough to moisten it slightly. The hairs of the velvet exercise to a certain extent the similar functions in the wetting of the object drawn across them as do the glands of the human tongue.

AN AUTOMATIC BANK PUNCH.

MESSRS. HATRICK & CO. (LIMITED), of 31 Snow Hill, E.C., are European agents for the "Automatic Bank Punch" here represented. The object of the "punch" is to render the



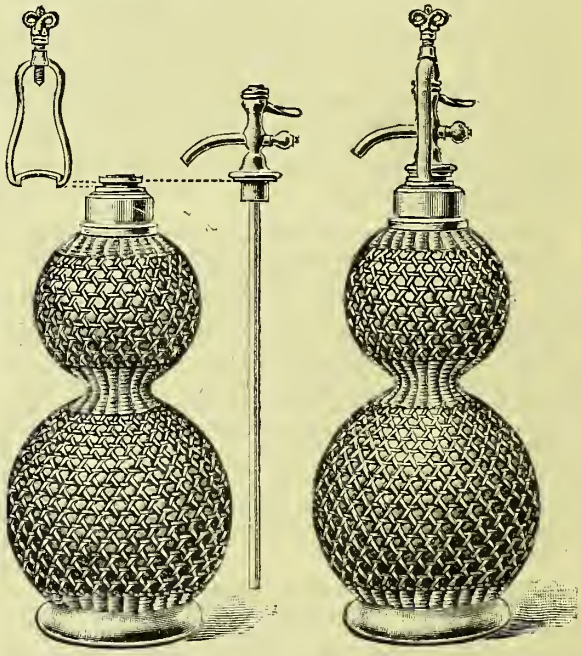
falsification of the face-value of cheques, drafts, and similar documents impossible by cutting out the amount they represent from the body of the paper. This is done by pressing the knobs at the revolving table on the upper part of the instrument. Each of these knobs corresponds with a die bearing the representation of one of the numerals, and there is an odd die, representing a star, for the purpose of marking the division between *£*, *s.*, and *d.* You press the button, the machine does the rest. The little pieces of paper cut out of the document by the mould fall upon the table below. Messrs. Hatrick & Co. showed us quite an imposing list of British bankers and merchants who use the instrument. It is also a significant commentary upon the distrust in which man is held by his fellow-men that in the United States alone over 15,000 of these machines are in use. We suggested to Mr. Hatrick that chemists might have more use for the machine if, in addition to the numerals, it contained dies with the representation of the letters of the alphabet—were converted, in fact, into a kind of punching typewriter. Mr. Hatrick saw no reason why that should not be done, though, of course, extra dies would increase the cost.

SCHUTZE'S IMPERISHABLE HOT-WATER BOTTLE.

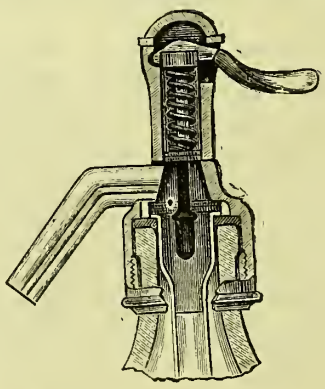
MESSRS. F. SCHUTZE & CO., of 36A, Aldersgate Street, have registered a new form of hot-water bottle, which they fairly designate the "Imperishable." It is made of nickel tin, which is rustproof, and it is rendered bearable to naked feet, and, at the same time, capable of retaining its heat for a long time, by being cased in a rather thick plush bag. The prices for this novelty are quoted in Messrs. Schutze's advertisement.

GERAUT'S PATENT SELTZOGENES AND SYPHONS.

THE new seltzogene which Messrs. Eugene Gerant & Co. have patented is novel in respect to the neck and shoulder, where the top-fittings are attached to the body of the apparatus. Instead of the metal screw by which these are generally



fitted, in Messrs. Geraut's patent the tube-attachment fits into the neck of the seltzogene by a smooth surface with an indiarubber washer at the top. The clamp is then applied to the grooved outside neck, the key-screw at the top is turned, the washer is perfectly tightened, and the machine is both gas and water tight. Leakage is avoided, a fresh drink is ensured, and, what is very important, the considerable risk of dirt or corrosion in the thread of the screw is avoided. The novelty in the patent syphons is that the



glass tube is fitted on to ebonite plugs, so that there can be no metallic contact with the waters while they are at rest in the syphons, and, moreover, when the tubes break they can be refitted more cheaply than in ordinary syphons.

COOK'S NEW SOAPS.

MESSRS. EDWARD COOK & SON, the well-known soap-makers of Bow, E., have lately introduced several new soaps which are worthy of attention. The principal of these in several respects is the "Hygienic Tooth-soap." In conversation with Mr. Henry Cook we have learnt that this originated with a prescription for a tooth-wash by Dr. Miller, of Berlin, which he had obtained for personal use, and which proved so advantageous and pleasant in use that it occurred to him to incorporate the active ingredients in a soap. After considerable experiment, and with modifications suggested by a West-end dentist, the soap in its present form was produced. As a dentifrice it is sure to take a foremost place, on account of its antiseptic, detergent, and refreshing properties. The soap is claret-coloured, and in use is quite destitute of saponaceous taste or odour—in fact, it is slightly sweet and aromatic. It is put up in a new style of earthenware box, the base of which is quite shallow, the lid deep, and, as the cake is well compressed, it wears off evenly, not becoming pasty. We understand that the soap, packed as described, retails at 1*s*. Another novelty is the series of "Riviera" super-fatted soaps, of the nature of *Savon de Luxe* but not so expensive. These soaps are made with a pure fat basis, and in the process of milling a fixed percentage of fresh fat is incorporated with it, the whole being delicately scented. The soap is moulded into oval cakes, and is packed in artistic floral wrappers and boxes. From a similar compound basis the "Riviera" shaving-stick is made. This gives a good non-frothy lather, which does not irritate the skin in the least. It is put up in a floral-decorated case and, like the toilet-soap, may be retailed at 6*d*. These soaps are stocked by the wholesale and sundries houses.

NEW COMPANIES.

WEST RIDING CANDLE COMPANY (LIMITED).—Capital, 10,000*l*., in 1*l*. shares. Object: To acquire the undertakings of the West Riding Candle Company, Rotherham, and the Sheffield Candle Company, carried on at Heeley Mills, Sheffield, and to carry on the business of soap and candle manufacturers in all its branches. The first subscribers (who take one share each) are:—T. Wigfield, 3 Collegiate Terrace, Rotherham; W. Wigfield, 3 Collegiate Terrace; G. H. Lodge, 3 South Terrace, Rotherham; A. T. Cocking, 12 Westgate, Rotherham; Caroline Wigfield, 3 Collegiate Terrace; Eliza Swain, Moorgate, Rotherham; and Richard Sands, 5 Baker Street, Nottingham. There shall not be less than three nor more than five directors; the first are to be elected by the signatories to the memorandum of association. Qualification, 100*l*. Remuneration to be determined by the company in general meeting.

THE PYRON SYNDICATE (LIMITED).—Capital, 1,000*l*. in 1*l*. shares. Objects: To carry on the business of chemists, druggists, manufacturers of and dealers in chemical, medicinal, and toilet articles, &c. The first subscribers (who take one share each) are:—G. A. F. Snart, Upton, Bexley Heath, clerk; A. C. Cartwright, 396 Clapham Road, S.W., clerk; J. L. Middleton, 13 Walbrook, E.C., agent; J. W. Clarke, 35 Oakhurst Grove, East Dulwich, gentleman; C. J. Bosdet, 72 Bishopsgate Street Within, secretary; W. Thompson, 57 Vicarage Road, N.W., gentleman; and M. G. Webb, 70 Finsbury Pavement, E.C., civil engineer. Registered without articles of association.

WINDING-UP COMPANIES.

THE AUTOMATIC SCENT-FOUNTAIN COMPANY (LIMITED)

THE creditors and shareholders of this company met on Monday last at Carey Street, W.C., before Mr. C. J. Stewart, Official Receiver, to appoint a liquidator and committee of inspection under the winding-up proceedings instituted against the company last month. The particulars and accounts have already been given. Resolutions were passed for Mr. Stewart to act as liquidator and wind up the company, with the assistance of the following committee of inspection—viz., Messrs. Everitt, Bush, and Goslin.

The following are the principal creditors, viz.:—

Unsecured.

	£	s.	d.
Bush, W. J. & Co., chemists, 19 Artillery Lane, E.C.	833	6	10
" " " "	2,989	16	6
Everitt, P., 47 Cannon Street, E.C.	420	3	11
Goslin, S. B., 24 Artillery Lane, E.C.	69	11	7
Great Western Railway Company, Paddington ..	36	5	0
London & South-Western Railway Company, Waterloo	54	3	4
Lancashire & Yorkshire Railway Company, Manchester	25	0	0
Metropolitan District Railway Company, Westminster .. .. .. :	36	9	5
Metropolitan & Metropolitan District Railway Company, Westminster	23	17	9
North-Stafford Railway Company, Manchester ..	15	0	0
South-Eastern Railway Company, London Bridge	55	1	4

Fully Secured.

Metropolitan Railway Company, Paddington ..	26	5	0
London & North-Western Railway Company, Euston	19	7	6

Debenture-holders.

Everitt, P., 47 Cannon Street, E.C.	1,000	0	0
" " " (Interest) ..	296	14	10
Bush, W. E., 19 Artillery Lane, E.C.	1,000	0	0
" " " (Interest) ..	296	14	10

THE SANITARY FOOD COMPANY (LIMITED).

THE adjourned meeting of the creditors of this company was held at Carey Street, W.C., on Wednesday last, before Mr. C. J. Stewart, Official Receiver. The particulars of the failure were given in our last week's issue.

The Chairman said the only business to transact was to decide upon the appointment of a liquidator, whose duty it would be to wind up the company. At the meeting of contributories held the previous Wednesday a resolution was passed for an application to be made to the Court to appoint Mr. Nathaniel James Whitcombe, Gresham Buildings, Basinghall Street, to the post, and it now remained for the creditors to express their opinion upon the matter. After some discussion the meeting resolved to make no application for a liquidator's appointment, preferring to leave the case in the hands of Mr. Stewart, to be wound up in the usual way. As the matter now stands, therefore, the application of the contributories for the appointment of Mr. Whitcombe will not be supported by the creditors, and the Official Receiver will probably act as liquidator for all parties.

COMPANY DIVIDENDS.

THE DIRECTORS OF THE BORAX COMPANY (LIMITED) have declared an interim dividend on the ordinary shares for the half-year ended June 30 at the rate of 5 per cent. per annum, tax free, payable on September 30.

THE DIRECTORS OF MANSELL, HUNT, CATTY & CO. (LIMITED), makers of paper bottle-caps, &c., have declared an interim dividend of 8 per cent. on the ordinary shares for the six months ended June 30 last.

A WORLD'S PATENT.—Two French inventors have patented a hypodermic syringe all over the world. It seems that an article can be protected in sixty-four countries. Sixteen of these are in Europe, eight in Africa, four in Asia, twenty-seven in America, and nine in Oceania. The total cost of the patent in all these countries amounts to 3,600*l*.

A VISIT TO LONDON'S SANITARY OUTPOSTS.

IF Dr. Thorne, the principal Medical Officer of the Local Government Board, may be compared to the chief of the staff of our anti-epidemy forces, the Medical Officers of Health of the Port of London resemble Uhlans, into whose keeping the outpost on the main route connecting the Russian and German plague spots with our metropolis has been given. The captain of this outpost is Dr. William Collingridge, and he, during all those anxious days, when the cholera shadow hung threatening over our shores, and our sanitary authorities were girding themselves for the battle they believed to be imminent, was cruising in the little Customs launch *Dolphin* off Gravesend with his assistant, Dr. Richard James Reece, hoarding every vessel from infected ports as she hove in sight, questioning and cross-questioning the captain, inspecting crew and passengers, quarantining, fumigating, and exorcising. The crisis is now happily past, and Dr. Collingridge has returned to headquarters at Greenwich, but Dr. Reece still keeps watch and ward at the further outpost, and a CHEMIST AND DRUGGIST representative who went to interview him a few days ago thus reports what he saw and heard:—

"No prophet is honoured in his own country, and the half-dozen Gravesenders from whom I successively sought enlightenment as to the whereabouts of the "Port of London Sanitary Authority" could only hazard vague suggestions connecting that body in some manner with the Custom House, the Salvation Army Barracks, or the Sailors' Home, the only point of agreement among them being that it was somewhere in the direction of the "Ship and Lobster," apparently a far more venerated and popular institution. At the Custom House, however, they knew all about Drs. Collingridge and Reece, and there an ancient mariner was told off to conduct me to the latter. This guide rowed me to a crazy black hulk moored in the middle of the river, with a figure-head that looked as if it had been mauled for years by some vicious Quilp, and generally mastless, riggingless, and rotten.

DR. REECE'S QUARTERS.

"Is *that* where the doctor lives?" I queried with surprise, and my vision of a magnificently-equipped lazaretto faded as did the mists upon the Essex coast before the beams of the suddenly-appearing sun. Yes, that was it. And the doctor divided his home between this hulk, where was his dwelling, the little Customs launch, and the hospital yonder on the Kent side of the river. In answer to my inquiry, a young, spare, athletic, but somewhat tired-looking man, in lounging jacket and cloth cap, stepped forward from among four or five Customs officers, with whom he shared the deck-cabin as common sitting-room. For a Cambridge graduate, who also holds the titles of M.R.C.S., L.R.C.P., and D.P.H., and to whom exceptionally fatiguing and responsible duties have been assigned, more comfortable quarters might well have been provided, but Dr. Reece did not seem to mind the primitive nature of his habitation, though he contrasted it smilingly with the descriptions of the slippered ease and luxurious environment in which the sanitary officer has recently, in a society paper, been pictured as spending his days. Behind the sitting-room is a sleeping apartment, some 10 feet wide by 7 feet long and high, with four berths, of which Dr. Reece occupies one. Fortunately for himself, he is blessed with a muscular frame, and has proved his powers of physical endurance as captain of his College-boat, and as an expert bicyclist, for the wear and tear of the last four weeks must have heavily taxed his strength.

INSPECTING ARRIVALS.

"We receive advices here every day," he said, "of ships due at this port. The average number passing here is from between thirty and thirty-five a day. They all have to be boarded, and their masters questioned according to a set formula. All vessels must have their hilge water pumped out, and their closets, urinals, and water-tanks thoroughly cleansed before passing up the river. When, however, vessels arrive from ports infected with zymotic disease, such as Hamburg, Cronstadt, and Havre are declared to be at the present moment, we inspect all the passengers, and if any of them show symptoms of disease, we remove them, if necessary, to the hospital yonder, where they are placed under the care of Dr. Whitcombe, a local practitioner, who is the Medical Officer of Health of Gravesend. In fact, the person in charge of the incoming ship is bound, of his own accord, to give Dr. Whitcombe notice of any case of cholera, diphtheria, erysipelas, measles, scarlatina, small-pox, typhus or typhoid fever he may have on board, under a penalty of, I believe, 50*l*."

CHOLERA PATIENTS.

"Are there any cholera patients in the hospital at present?"

"No; there are none there now, but we have had several cases during the last six weeks. Three patients from the steamer *Gemma* died straight off the reel, and of two others who were brought here on board the *Helene*, I think, one succumbed the day before yesterday from secondary fever following cholera. There are a set of 'cholera questions' formulated by the superior authorities which we must put to masters of ships coming from infected ports. And if a ship has a case of cholera on board of too serious a nature to allow the removal of the patient, the vessel is placed in quarantine, and a 'yellow jack' hoisted at her foremast.

"The disinfecting of ships is done by means of burning sulphur, and no charge is made for it. The cholera patient's clothes? No, we don't disinfect them. That would not satisfy us. We burn every blessed rag he has got on him, and furnish him with a new rig-out at Government expense. The

RICHARD JAMES REECE, M.A., M.D.

sanitary authorities don't mean to spoil the ship for the sake of a ha'p'orth of tar, and I have heard that they were pre-prepared, in case of a serious cholera attack, to spend 10,000*l*. on clothing to replace effects burnt by order of the local authorities."

"Talking of authorities, Dr. Reece, would you tell me by whose authority you exercise your office? When I had a talk with Dr. Thorne the other day, he told me that there were sixteen thousand odd sanitary districts in this country, all of them so many little home-rule units, and each left to its own devices."

"We are here," said Dr. Reece, "under the authority of the Corporation of the City of London. This order, as you will see, is signed by its Town Clerk at the Guildhall. Our district extends from here to Teddington Lock. But from here to the mouth of the Thames there are several other authorities—at Sheerness, Chatham, and elsewhere."

THE LITTLE YACHT.

While this conversation was proceeding, we had walked towards the side of the vessel, and were now leaning over her bulwarks, watching the sun dance on the water, and battling with the grey mists that hung over the Essex swamps. Suddenly Dr. Reece pointed to a small yellow-funnelled steamer in the distance. "That is our yacht," he said; "we are on board her the greater part of our time, by the

courtesy of the Customs, for it is to that department that the vessel belongs. I am sorry she is not now within reach, or I would take you on board and show you that she is by no means so luxuriously fitted as some cavillers have asserted. But I can take you to the hospital, though I should not recommend you to go there, as we have an unusually severe case of small-pox there—an Italian, I believe, who has just come in on board a German vessel. No; there is no pharmacy or dispensing-room for you to look at. Old Dr. Whitcombe brings his own medicines. We have a supply of cholera medicines and disinfectants on board the launch, and here"—reaching in a corner at the lower end of his bunk—"I keep a case of morphia, and other drugs for hypodermic injections. Practically, we use no other disinfectants than sulphur, carbolic acid, and corrosive sublimate. Of the latter, the solution I use is exceptionally strong—viz., 1 in 768.

THE DESTITUTE ALIEN.

"You should have been here a short time ago," continued the doctor, "when we had forty-seven Russian Jews camping on shore. They were stopped under the new order of the Local Government Board, which prohibits the landing of passengers 'in a filthy or otherwise unwholesome condition' until they have satisfied the Medical Officer of Health of their names, destination, and addresses at their places of destination. This clause practically gives the sanitary authorities the power to stop such passengers (who, in almost every case, are Russian Jews) for an indefinite time. The party of forty-seven, of which I speak, seemed to be quite happy. Dr. Collingridge and myself saw them every day; and Dr. Collingridge—who was with the Servian army as surgeon-major during the war against the Turks, and speaks almost every Slavonic language you could name—got on splendidly with them. They were kept here at the expense of the shipbrokers, and we became quite friendly, through Collingridge's distribution of tobacco among them as *largesse*.

"It is no sinecure here," said Dr. Reece. "You are liable to be called up at all hours of the night, for the arrival of ships depends much upon the tide, and I often have to snatch an hour's sleep just when I can get the chance. Sometimes, of course, days pass that we have very little to do.

THE LIBRARY AND THE DARK ROOM.

"This is my library," continued the doctor, pulling some half-dozen books out of the corners round about his bunk, and a few more from underneath his pillow and mattress (He was the only man on board who boasted the luxury of a mattress in his bed.) "The Customs officers with whom I live here are very companionable fellows, but otherwise there is not much amusement." I suggested photography. "No; I haven't done anything in that line here," said the doctor, "though there would be some facilities, for we have a nice dark room below." "A dark-room?" "Yes, for use of the Customs. People often arrive here from abroad with a lot of photographic negatives, and as it happens that tobacco and cigars have sometimes been smuggled under that denomination, the negatives are inspected in the dark-room provided for that purpose.

"Besides the duty of inspecting vessels I am also keeping a look-out upon the quality of foodstuffs imported, and not a small part of my time is spent in examining fruit, wheat, meat, and other imports, and condemning them if unfit for food, so that you see I have quite enough to do to keep me going."

And with that our representative took his leave from the young doctor, and returned to town, impressed more with the calibre of the men than with the efficiency of the appliances provided by the Corporation to ward off the disease from our doors.

WINDOW-DRESSING.—Mr. J. M. McNeil, of Scottdale, Pa., is ingenious in this matter. He tells the *Pharmaceutical Era* of many of his devices, and says, amongst other things, that he has used for several years the pictorial journals, *Puck* and *Judge*, one in each window, and turns one leaf every morning; it is surprising how many people come daily to see them. They occupy little room, and attract attention. People see all in the window then.

Business Changes.

MR G. J. BOUTALL, of Marchmont Street and Holborn, is opening a new pharmacy in Ludgate Hill, E.C.

MR. EDWIN W. ROUTLEY has acquired the chemist's and druggist's business lately carried on at Beckenham by Mr. F. Bright.

MR. J. J. GRAY, chemist, Cults, Aberdeenshire, has disposed of his business, which he recently opened there, to Mr. J. R. Reith.

THE chemist's and druggist's business of the late Mr. H. Durden, 13 Cornhill, Dorchester, has been acquired by Mr. W. L. Pearce, who was assistant to Mr. Durden for many years.

MR F. W. HARRIS, chemist and druggist, of 83 Brockley Road, Brockley, has purchased the lease of No. 87 Brockley Road, and will shortly remove his business to the latter address.

MESSRS. WESTON, APLIN & Co., chemists and druggists, of the Parade, and other places at Chislehurst, have acquired the pharmacy established by Messrs. Lockyer Brothers, at the Parade, New Eltham.

MARRIAGE.

[*Notices of Marriages and Deaths are inserted free if sent with proper authentication.*]

REDWOOD—HORNER.—At St. Mary's Church, Walthamstow, on September 15, Iltyd Isaac Redwood, youngest son of the late Theophilus Redwood, Ph.D., of Boverton, Glamorganshire, to Katharine, third daughter of W. Sims Horner, of Fernhill, Walthamstow.

DEATHS.

BAKER.—At Harrogate, on September 18, Mr. William Baker, of Retford. Aged 76. The deceased was for many years in business in the Market Square, Retford, as a chemist and druggist, from which he retired about twenty-three years since. He was a Churchman and Conservative, and was highly respected for his many charitable acts.

ROBERTS.—Mr. John Roberts, of Ottawa, one of the pioneer druggists of Canada, who died on August 5, in his 78th year, was a native of Kinross, Scotland, and one of the richest druggists in Canada, having left a fortune of $519,000. Mr. Roberts worked hard thirty years ago to get pharmacy placed on a proper footing in Ontario, and was at one time a member of the College of Pharmacy there. The greater part of his estate is bequeathed to his nephew, Mr. J. Roberts Allan, who was associated with him in business.

WATSON.—The death is reported of Mr. Henry Watson, druggist, at Milton, Ontario. Deceased was a native of Scarborough, Yorks, where he, along with a brother Joseph, was trained to the drug-trade, and both of them emigrated to Canada almost fifty years ago. They first took up their abode in Hamilton, Ontario, but afterwards settled in Milton, Joseph later on going to South America. Mr. Henry Watson was very successful, and the *Canadian Pharmaceutical Journal* says of him that he was a staunch representative of the good old English school, hearty, kind and honourable; a man of deeds rather than words, who won the respect and confidence of all who knew him. He leaves a family of six sons and four daughters. The eldest son is a partner in the firm of McDowell & Co., druggists, Vanconver, B.C. Deceased was in his 68th year.

MINERAL SPRINGS IN MEXICO.—Mineral springs, both hot and cold, are very abundant in Mexico, and some of the waters have been incorporated in the Mexican Pharmacopœia by M. Alfonso Herrera. The very common native name "Atotonilco" always indicates the proximity of warm mineral springs.

PHARMACEUTICAL EDUCATION IN THE STATES.

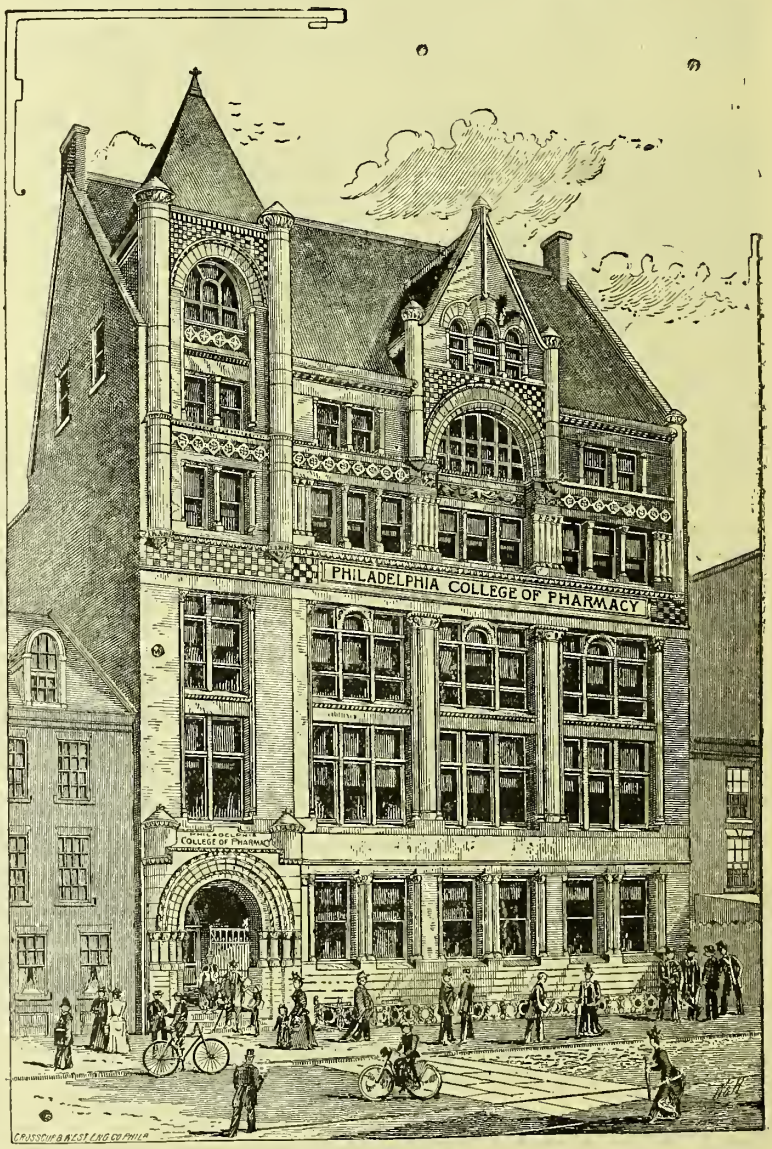
THERE is a certain degree of appropriateness in referring at present to pharmaceutical education in the United States. In a few weeks the celebration of the Jubilee of the oldest school of pharmacy in the United Kingdom will be solemnised, and it may help to restrain our enthusiasm then if we recollect that there are three older institutions in the world whereat the pharmaceutical sciences were taught in the English tongue before the School of Pharmacy was thought of. It was in 1821 that the Philadelphia College of Pharmacy was founded. New York City followed, eight years later, with a college; and in 1840 Maryland, in Baltimore, also began the work. It would not be profitable to indulge in historical reminiscence, for our object now is to sketch, in free outline, the manner in which young American pharmacists receive their education, and we take the opportunity of presenting an artist's drawing of the new buildings which the Philadelphia College of Pharmacy will occupy ere long.

From its very small beginning, in 1821, this College has repeatedly found it necessary to enlarge its building, until this year the greatest improvement yet attempted will be completed. The illustration merely shows the front of the building, and constitutes the new part. The larger part of the structure, situated in the centre of the block, was erected in 1867 and 1880. As now completed, the building contains three large lecture-rooms, a chemical laboratory, a pharmaceutical laboratory, and several smaller quiz and private rooms, all situated in the older part. The new structure, six storeys in height, contains the library, museum, offices of the *American Journal of Pharmacy* and of the Alumni Association, committee-rooms, and several smaller rooms. It was also found necessary to make some internal improvements. The lecture-rooms have, therefore, been remodelled with opera chairs, and the laboratories enlarged so as to increase their capacity about one-half. The whole is lighted by electricity, and heated by steam.

Last year the capacity of the building was taxed to its utmost with 640 students, but the improvements of this year will admit of 800 students attending in two classes, and it will not be difficult to still further enlarge, as soon as there is the necessity for it.

The demand for pharmaceutical education has increased enormously in America during the past decade, due, in part, to the passage of State laws governing the practice of pharmacy. As a result, colleges have sprung up in every direction; but this has in no way affected the attendance at the Philadelphia College, for 40 per cent. of the students attending there come from other States or from foreign countries. Many who begin at a local college go to Philadelphia to complete their education, and so obtain a diploma from an institution that is known and recognised the world over.

In all but two of the States, Tennessee and Vermont there are either pharmacy or poison laws, and registration of pharmacists is all but universal, carrying with it experience in pharmacy for from two to five years, and examination thereafter. Although a curriculum does not appear to be compulsory there are, nevertheless, thirty-eight schools and colleges of pharmacy in the States, one of them (Louisville) being exclusively for women, and another at Meharry, Tenn., for gentlemen of colour. Thirteen of the colleges are conducted by pharmaceutical associations, and other nine, which are departments of universities, are under the direction of State pharmaceutical associations. It is doubtless in consequence of this intimate connection that a very large majority of the teachers and professors are practising pharmacists, and this circumstance also determines the hours at which classes meet. Although evening and afternoon classes are by no means universal, some of the more important colleges do have lectures and laboratory practice then. Thus in the Philadelphia College—probably the best-attended school of pharmacy in the world, seeing it had 640 students last year—lectures are given between 7.30 and 9.40 P.M. Albany, California, Denver, Howard, Kansas City, and St. Louis also have this peculiarity. The sessions as a rule begin in the first week of October and last twenty-six weeks on an average, but some are as short as ten weeks, and a few, in connection with universities, extend to the whole college year, thirty-six weeks. Two sessions generally constitute a complete course, and the consequence is that junior and senior classes exist side by side. They receive in the course of the week two lectures each in botany and



materia medica, chemistry and pharmacy, while the attention given to practical chemistry and pharmacy is one of the best features of American pharmaceutical education. They are also far before us there in tutorial work, which, under the guise of "quiz classes," conducted by the demonstrators, but sometimes by the professors, are an educative means of the highest order. Microscopy is also much more popular in American schools than it is with us, and in some colleges there are special teachers of this branch.

The cost of education appears to be exceedingly moderate, as the following examples show:—Cleveland, $52; Denver (University), $115; Louisville (women), three years, $100; Massachusetts, $140; Iowa (University), $147; New York, $160; Howard (University), three years, $180; and Philadelphia, $210. These are for two-year courses. That seems a long period in comparison with what is considered sufficient in this country, but it must be remembered that students as a rule are simultaneously engaged in business, and the time which they actually spend at the school comes very close to the British aggregate. Three hundred lectures and one hundred hours of laboratory work are the average in a curriculum, and that is commonly gone over in England during a three-months course.

These, then, are the main features of American pharmaceutical education. One feature can scarcely be overlooked, viz., the large number of "professors" connected with pharmacy in the States. Three dozen colleges provide us with 150; here in England we boast of three! The proper finish to a course of instruction in any of the colleges is to graduate, as the diplomas obtainable are recognised by the State Boards of Pharmacy, who are charged with registration. These Boards also examine, and if we may judge from the fact that the Philadelphia College from its foundation has had 11,000 students and only 3,565 graduates, the Boards would appear to get most of the work or the failures are exceptionally numerous. For an account of the examination of the New York State Pharmacy Board see THE CHEMIST AND DRUGGIST, October 18, 1890.

The following is a list of the various colleges and schools of pharmacy, with the addresses of the secretaries:—

Albany: Dr. A. B. Huested, 144 State Street, Albany, N.Y.

Atlanta: Dr. W. H. Inghram, 341 Marietta Street, Atlanta, Ga.

Brooklyn: Dr. R. G. Eccles, 191 Dean Street, Brooklyn, N.Y.

Buffalo: John R. Gray, Ph.G., Buffalo, N.Y.

California: E. W. Runyon, 53 Steavenson Street, San Francisco, Cal.

Chattanooga: H. Wise, Chattanooga, Tenn.

Chicago: 465–7 State Street, Chicago, Ill.

Cincinnati: W. Simmonson, at the Pharmacy College there.

Cleveland: J. H. Peck, 338 Superior Street, Cleveland, O.

Denver: Professor J. Kochan, P.O. Box 2,657, Denver, Col.

Detroit: Dr. E. C. Skinner, Corner St. Antoine and Mullett Streets, Detroit, Mich.

Howard University: C. B. Purvis, 1,118 Thirteenth Street, Washington, D.C.

Illinois: O. Oldberg, 40 Dearborn Street, Chicago.

Indiana (Normal School): A. E. Hiss, at the school, Valaparaiso, Ind.

Indiana (Purdue University): A. L. Green, La Fayette, Ind.

Iowa: E. L. Boerner: University, Iowa City, Iowa.

Kansas City: J. G. Kiefer, 911–913a Tenth Street, Kansas City, Mo.

Kansas (University): Mr. R. K. Moody, Lawrence, Kas.

Lebanon (National Normal University): R. H. Holorook, Lebanon, Ohio.

Louisville: F. C. Miller, Market and Clay Streets, Louisville, Ky.

Louisville (Women): J. P. Barnum, at the school, Louisville, Ky.

Maryland: J. W. Geiger, High and Pratt Streets, Baltimore, Md.

Massachusetts: C. C. Williams, at the college, Boston, Mass.

Michigan: Address, School of Pharmacy, Ann Arbor, Mich.

Minnesota (University): F. W. Wulling, Minneapolis, Minn.

Nashville (Central Tennessee College): Dr. G. W. Hubbard, Nashville, Tenn.

Nashville (Vanderbilt University): J. T. McGill, Vanderbilt University, Nashville, Tenn.

New Orleans (Tulane University): Dr. S. C. Chaillé, Dean, New Orleans, La.

New York City: J. N. Hegeman, 209–213a Twenty-third Street, New York City.

Ohio (Normal University): J. G. Park, Ada, Ohio.

Ohio (State University): Columbus, Ohio.

Oregon: H. D. Dietrich, Portland, Ore.

Philadelphia: T. S. Wiegand, 145 N. Tenth Street, Philadelphia, Pa.

Pittsburgh: J. A. Koch, Twelfth and Carson Streets, Pittsburgh, Pa.

St. Louis: J. M. Good: 2,348 Olive Street, St. Louis, Mo.

Scio: J. H. Beal, Scio, Ohio.

Washington: Dr. H. E. Kalusowski, 808 I. Street, N.W. Washington, D.C.

Wisconsin (University): Professor E. Kremers, Madison, Wis.

It would not be just to our compatriots in British North America to close this article without a reference to the work done there for the advancement of pharmaceutical education. The Ontario College of Pharmacy at Toronto has the distinction of being the first English college to be affiliated with a university, whereby it has secured for its pupils the privilege of a degree without materially adding to the curriculum or the stringency of the examination. The college was founded in 1882, and its Faculty are not averse to receive English pharmacists as candidates for its degree—Phm.B. For this the conditions are (1) matriculation (implies a preliminary examination); (2) a curriculum, part of which must be at the Ontario College; and (3) an examination in botany and microscopy, theory and practice of chemistry and toxicology; materia medica, including posology and pharmacognosy; theory and practice of pharmacy, including interpretation of prescriptions and dispensing. The college is an excellently equipped institution. Secretary, I. T. Lewis, St. James's Square, Gerrard Street, Toronto.

The Montreal College of Pharmacy (Secretary, Mr. E. Muir, 595 Lagauchetière Street, Montreal) provides the education necessary for the Examining Board of the Province of Quebec. This College was founded in 1867, and the evening lectures are given in English and French.

Pharmacy degrees are granted by the following Universities in the United States, and the classes are open to English-trained students who can fulfil the necessary preliminary conditions as to education and service in pharmacy:—

PHAR. DOC., by Illinois (department of North-Western University, Evanston) and Maryland Schools.

PHAR. MASTER, by the Maryland, Michigan, Philadelphia, and Vanderbilt Schools.

PHAR. CHEM., by the Michigan and Scio Schools.

For particulars regarding these, we must refer those interested to the respective secretaries.

THE QUANTITY OF OPIUM used in the United States has largely increased during the past forty years, and the increase is out of proportion with the increase of the population. In 1854 the amount imported was about 72,000 lbs.; in 1880, 372,000 lbs; in 1890, about 500,000 lbs. The legitimate demands of medicine would call for an increase in quantity commensurate with the increase in population, but see the contrast.

FAITH AND MATTEI.—It is not all "bunkum" about Mattei. Dr. G. M. Robertson, of the Morningside Asylum, tells in the *Lancet* of a lady who was suffering from cancer, and was in the last stage of cachectic exhaustion, when her husband was much impressed with Mr. Stead's article on Count Mattei's cancer-cure, and he determined to make a trial of it on his wife. With the first dose all the wracking torture that the woman suffered from disappeared, and she continued taking this remedy for the last fortnight of her life with total alleviation of pain. A similar fact is stated to have been observed by the committee of inquiry into Count Mattei's remedies.

Legal Reports.

A Patent-medicine Agent's Business.

At the Glasgow Justice of Peace Court, on September 15, James Wright, agent, 111 Union Street, was charged at the instance of the Inland Revenue authorities with having "contravened the 9th section of the Act 42 George III., chap. 56, as amended by the 6th section of the Act 27 and 28 Victoria, chap. 56, and the 8th section of the Act 38 Victoria, chap. 23, in that on August 12, 1892, in the premises at 111 Union Street, Glasgow, occupied by him, he vended to John Joseph Hurley, officer of Inland Revenue at Glasgow, a bottle containing 'Walker's toothache specific,' said specific being a medicine or medicament within the meaning of the said Acts, and liable to stamp-duty, without having taken out the licence required by the Act, whereby he was liable to a penalty of 20*l*." The prosecution was at the instance of Richard Edward Carnegie, officer of Inland Revenue, Glasgow. The Justices were ex-Preceptor Matheson (presiding) and Mr. Lewis Mitchell. Mr. George Gray was present as Assessor of Court.

Respondent, who pleaded not guilty, was defended by Mr. Alex. Brownlee, writer.

The first witness called was Mr. John Joseph Hurley, officer of Inland Revenue, who said that he went to the defendant's premises at 111 Union Street, on August 12. It was an agent's office, three stairs up. He knew Mr. Wright was an agent for "Walker's toothache specific," and wanted to know if he sold the medicine in his place. He bought a bottle from the boy, for which he paid 7½*d*. The defendant had not a licence for selling it. It was duly stamped with the Revenue stamp.

Cross-examined by Mr. Brownlee: How many stairs up is the office in Union Street?—I think it is three or four stairs up.

When you went into the place did you see a variety of samples of goods lying about—ironmongery, medicines, sewing-machines, and almost everything?—Yes; I know there was a variety of goods in the place.

When the office-boy sold you this, did he produce a sample-card with bottles of this stuff attached to it?—Yes.

Did he tell you his master was an agent for Mr. Walker, the proprietor of that medicine?—I knew he was an agent for the specific. I didn't ask him, and he didn't tell me.

Did you know if his master gave him consent to sell any of it?—I didn't ask him, and he didn't say. When he gave me the bottle I handed him a two-shilling piece, and he told me that Mr. Wright would be in immediately. However, he went out to get change, and when going down the stairs he met another gentleman, who seemed to have some responsibility in the place. He gave him the money, and he gave me the change. The defendant, he thought, was not the gentleman who came in.

Would you not think it would be fair to Mr. Wright if you were to go and make the purchase when he was in the office himself?—I went on three previous occasions, but never could get him in.

Did you ask the boy if his master sold this patent medicine?—I asked the boy if they sold "Walker's toothache specific." Witness next stated that defendant simply described himself on his sign as "agent."

Did you try to buy any other kind of patent medicines there?—No, I don't think so.

How did you come to know that he sold patent medicines?—He exhibited this medicine at an exhibition in Inverness, I think. At least, we got information to that effect.

Mr. Carnegie: He went there by my directions.

By the Court: Was there nothing to indicate to chance customers passing along the street that they could go up there and buy this medicine?—No, nothing. No indication whatever.

This closed the evidence for the prosecution.

For the defence the office-boy—a lad of 15, named George Lauder—was called. He said he had been with Mr. Wright for eight months. His duty was to keep the office open to customers. During the eight months he had been there nobody ever came to ask him to sell a patent medicine before.

Did you ever sell any single article in your life before?—Not me; but the girl did.

Mr. Gray: Eh?

Witness (continuing) said that Mr. Wright told him he could sell some of the samples, but not any patent medicines. He knew that Mr. Wright acted as agent for Mr. Walker, and took the sample-card round to druggists to show it to them.

At this stage the sample-card was handed up to the Magistrates for examination. It had attached to it a dozen small phials, and bore that the contents of the bottles were prepared by James Walker, surgeon-dentist, Saltcoats; that they cured toothache instantly; and that the price of each phial was 7½*d*.

Witness stated that the cards were hung up by the druggists in their windows. He explained that when Mr. Wright was favoured with orders from customers those orders were forwarded to Mr. Walker, and he sent the medicines on to the customers direct. The card was in the place, he thought, when he went there first. "It was," he said, "in the place, I am sure, for some months past, and there has not been a single bottle sold of it, except this one that I sold to Mr. Hurley."

Mr. Brownlee: When the man came up what did he say to you?—He asked for a bottle, and never said who he was or anything, but just asked for it, and how much it was. I told him 7½*d*. I didn't know any other price but what was on the card.

And was that how you knew the price, seeing it marked on the card?—Yes.

Did Mr. Wright come in some time after you sold it?—Yes; and I told him that I had sold it. He told me that I had no right to sell it, and that I had done wrong.

By the Court: Did you ever see any bottles like this sold?—Not on retail. We send the orders on to Mr. Walker, who sends on the medicines direct to the customers.

This was all the evidence.

Mr. Brownlee then addressed the Court. He said that his client was merely the agent—the servant—of Mr. Walker, whose place of business was at a distance, for distributing these kinds of goods in Glasgow. He was the middleman—the servant, rather, of Mr. Walker, and distributed those goods to the druggists to sell them, and with whom, their Honours might well believe, he had no wish to enter into competition. By so doing he would simply spoil his own trade. Mr. Walker, the proprietor of this medicine, held a licence to sell the medicine, and so had the druggists who retailed it. Thereby the Revenue was protected in every way. The defendant was simply in the position of a commercial traveller, leaving his sample in a sample-room which he kept in Glasgow for his convenience. The boy had no authority, no permission from his master, to sell the bottle. There were brewers' travellers going all over the country with samples, and he had not heard it said that those gentlemen required licences. If defendant had set up a public shop for selling this medicine, employing, and knowingly employing, servants to sell it for him, then there would be a good case for the prosecution. But was he to be incriminated by the act of a careless employé?

After a short consultation with his brother Magistrate, Ex-Preceptor Matheson said that, considering the circumstances of the case, the Court found the accused not guilty.

Mr. Carnegie, on behalf of the Inland Revenue authorities, intimated an appeal to a higher Court.

An Arsenic Blister.

At the Portsmouth Police Court, last week, William Burnett, veterinary surgeon, of St. James's Road, Southsea, was summoned by the Royal Society for the Prevention of Cruelty to Animals for cruelty to a mare.

Mr. Clark, solicitor, explained that the allegation was that the defendant applied a blister to the mare containing arsenic.

William Charles Evans, a dairyman, of Grosvenor Street, Southsea, said he went to the defendant and asked him for advice with reference to his mare, which was losing its hair. Defendant gave witness an ointment, and next morning the mare was found lying down in great anguish.

Mr. Feltham, solicitor, for the defence, said his client was not guilty of intentional cruelty. He did not apply the drug for the purpose of causing torture or pain; and if the animal had suffered, the defendant was in the position of a doctor who had been unfortunate enough to give an overdose of medicine.

The case was adjourned till October 5, in order that an analysis of the ointment might be made.

The Veterinary Surgeons Act.

At Liverpool, on Friday, September 16, Edward H. Walsh was summoned before the Justices, at the instance of the Royal College of Veterinary Surgeons, on a charge of unlawfully describing himself as qualified to practise a branch of veterinary surgery when he was not registered and held no certificate. Evidence was given that defendant's premises were described on a signboard as "Walsh's Veterinary Infirmary for Horses," and on a lamp "Walsh's Veterinary Infirmary." It was contended that there was no offence, as the defendant had not held himself out to be a veterinary surgeon. The Magistrates, however, considered the case proved, but being the first prosecution they imposed a fine of only 40*s.* and costs.

The Salvine Trade-mark—Townhead *v.* Pulley.

A motion in this action came on Wednesday before Mr. Justice Barnes, sitting as Vacation Judge, in the High Court of Justice. The plaintiff sought to restrain the defendant and others from selling or advertising for sale a dentifrice under the name of "Salvine." The motion having been opened, Mr. Waggett, for the defendant, raised the preliminary objection that the plaintiff was not the registered owner of the trade-mark. The mark was registered by Dr. Alva. Counsel for the plaintiff said the trustee in Dr. Alva's bankruptcy had been made a co-plaintiff, and he submitted that this got over the difficulty of the assignment to the plaintiff not being registered. Mr. Waggett then submitted that "Salvine" was not a proper word under the statute for registration, and, on proper application, the mark would be expunged from the register. He had, he said, so good a case that the defendant would undertake to keep an account of all sales of "Salvine," or Dr. Alva's salvine, by him and his agents until the trial of the action. This course was eventually agreed to, and the motion stood over until the trial or further order, costs being costs in the action.

BANKRUPTCY REPORTS.

Re Jonathan Stephens, of 114 George Street, Devonport, Chemist and Druggist.

On September 6, before Mr. Registrar C. V. Bridgman, at the Stonehouse Bankruptcy Court, Mr. J. Greenway stated that the accounts ordered to be filed were voluminous, and so far as he could see they had been very carefully prepared. The accounts comprised no less than 217 sheets, and he had not been able to give them the investigation they required. He therefore asked for an adjournment until September 30. Mr. Jackson, for the debtor, concurred, and the examination accordingly stood adjourned until the end of the month.

Re Frank Northcott, 13 Rood Lane, E.C., Chemical Broker, &c. (trading as Northcott & Sons).

The first meeting of the creditors under this failure was held on Wednesday last at the London Bankruptcy Court, before Mr. E. Leadam Hough, Official Receiver.

The Chairman said that owing to delay in filing the statement of affairs he had not been able to have circulated the usual summary and observations upon the failure. The statement showed:—Assets: Cash at bank, 15*l.* 1*s.* 7*d.*; stock in trade, 1*l.*; office-furniture, 20*l.*; book-debts, good, bad, and doubtful, 63*l.* 1*s* 11*d.*; total, 99*l.* 3*s.* 6*d.* There was a further sum of 15*l.* deposited with the debtor's solicitors against the cost of the petition. The other side of the accounts showed unsecured creditors, 840*l.* 18*s.* 6*d.*; partly-secured creditors (holding security valued at nothing at all), 1,328*l.* 14*s.* 7*d.*; contingent liabilities (expected to rank), 451*l.* 4*s.* 6*d.*; total, 2,620*l.* 17*s.* 7*d.* The receiving order was made upon the petition of the debtor, who had also been adjudicated bankrupt. For some years prior to 1880 the debtor carried on business as a chemical broker at Rood Lane, in partnership with his father and brother, and after the death of the father, by himself and his brother, who under the partnership articles became entitled to the father's share subject to the payment to the widow of a capital sum of 1,500*l.*, and an annuity of 500*l.* until 1896. The annuity had not been paid since 1886, when the debtor and his brother made an arrangement with their trade creditors under which a composition of 1*s.* 9*d.* in the pound was paid on liabilities, amounting to between 3,000*l.* and 4,000*l.* The partnership was dissolved about June, 1890, since when the debtor had traded alone. The partnership liabilities now outstanding appeared to amount to 1,885*l.*, exclusive of the amount owing to the debtor's mother, who makes no claim. The debtor admits that he has been insolvent since 1887. The books of the business appeared to sufficiently disclose the business transactions and financial position of the debtor.

Messrs. Barlow & James, who represented the debtor, stated that their client was not prepared to submit any offer with a view to the avoidance of bankruptcy.

No resolutions were passed at the meeting, and the Chairman intimated that, acting as trustee, he would administer the estate in due course of bankruptcy. He regarded the prospects of a dividend as very poor.

The debtor was ordered to attend the Court on October 21 next, at noon, for the public examination.

Unsecured.

	£	s.	d.
Brunner, Mond & Co., Northwich, chemical manufacturers	152	19	0
Godfrey Hall, C., & Co., 89 Regent Street, W. ..	14	0	0
Imbert, B., & Co., Paris	59	6	0
Jacoby, J., Paris	271	6	0
Northcott, J. B., executors of, Manchester ..	235	10	0
Stimson, W. A., 9 Hanover Square, W.	23	17	0
Vivian, H. H., & Co. (Limited), Swansea	24	5	8

Fully Secured.

Economic Assurance Society, 6 New Bridge Street, Blackfriars	104	0	0

Partly Secured.

Lawes, J. B., & Co., 23 Mincing Lane, E.C. (Security valued at *nil.*) ..	1,328	14	7

Gazette.

PARTNERSHIPS DISSOLVED.

Crompton, Merrall, & Lucas, Bury, surgeons and apothecaries.

Ellis & Parker, Cleckheaton, Yorkshire, manufacturing chemists.

George Miller & Co., Glasgow, manufacturing chemists.

Martin, J., & Martin, S. W., under the style of J. Martin & Sons, Chesterfield, veterinary surgeons.

SCOTCH SEQUESTRATION.

Dobbie, J., Leith, pavement and cement merchant, and under the firm of Dobbie, Sons, & Co., Elliot, near Arbroath, chemical manufacturers, September 27, at 3 Dowell's Rooms, Edinburgh.

THE BANKRUPTCY ACTS, 1883 AND 1890.

Receiving Order.

Tuke, John Henry, Cambridge Street, Pimlico, surgeon.

Adjudication.

Rogers, George P., late New Cross Road, S.E., and Amersham Vale, New Cross, surgeon.

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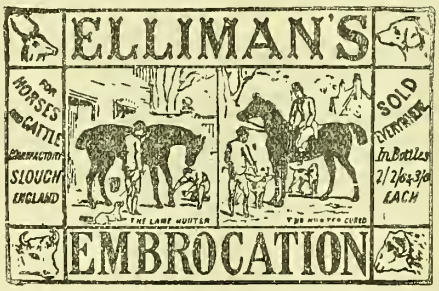

See first page, facing inside of front of cover, of first issue of this month, for latest particulars.

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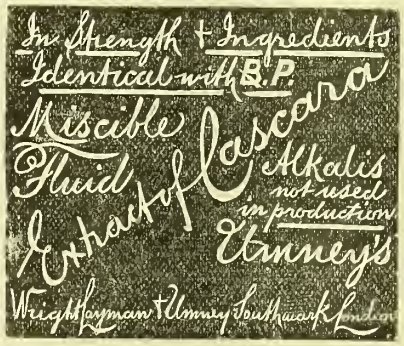

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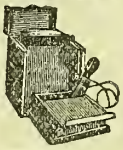
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Editorial Comments.

IRISH ELECTIONEERING TACTICS.

The annual meeting of the Irish Pharmaceutical Society is appointed for Monday, October 3, at 7.30 P.M., and it is looked forward to this year with especial interest in consequence of the keenness with which the battle for seats on the Council has been contested between the two parties in the Society, the pharmaceutical chemist "members" and the druggist "associates." The Council consists of twenty-one members, and the associates have a legal right to seven of the seats, if they can capture them. The members, on the other hand, have the right to occupy the whole of the seats if they think fit to do so, and if they are numerically strong enough.

There is not much doubt that when the last Irish Pharmacy Act was drafted and passed through Parliament the idea of its promoters, and perhaps also of those members of Parliament who supported it, was that it would in some sort of way ensure the proportion of one third and two-thirds on the Council, which it allowed. To make that result more probable, a cumulative vote should have been provided, or at

least no voter should have been allowed to select more than fourteen representatives. Either of these methods would have given the minority a fair chance. Last year the "members" developed a voting-power at the poll more than double that of their colleague-rivals, and it was only by their grace that two druggist representatives were admitted to the Council. For the coming election, however, the "associates" have been working hard to make up leeway.

In accordance with the rotation-list, seven members of the Council retire, but are eligible for re-election; of these one (Mr. Gibson), is an associate druggist, and the other six, members. By the elections at the last Council-meeting, our correspondent estimates, the associates had succeeded in securing a majority, and they publicly boasted that they intended sweeping off the Council those members who had been particularly prominent in instituting prosecutions of druggists for compounding. Mr. Wells has the honour of being specially selected as an anticipated victim. In the contest for supremacy an unreported incident which occurred at the last Council should not go unrecorded. As was shown in our report a large number of druggists and a small number of pharmaceutical chemists were elected. These had been nominated at the August meeting. The rule concerning candidates for membership or associateship provides that candidates shall be proposed at one meeting and elected at the next, so that in the ordinary course of events candidates proposed at the September meeting would not be elected until the October meeting—that is, after the Council election would be over. Last year, however, at the request of a representative of the druggist party a special meeting of the Council was invoked to elect a dozen belated candidates—Mr. Wells, who was then filling the President's chair, immediately capping the druggist list with three dozen pharmaceutical candidates. This year Mr. Wells himself took the initiative. At the end of the Council-meeting he proposed a list of candidates for election. Mr. Gibson asked if those candidates would be elected in time to vote at the coming election. The Chairman said he thought not. Mr. Gibson then inquired if it were intended to call a special meeting to elect them, as if so he would propose a list of druggists himself. He thereupon took up a calendar or book and commenced writing out a list of names. Leaving him thus occupied the pharmaceutical members of the Council left in a body, so that when the list was handed in the only members present were Mr. Hayes (President) and Messrs. Boyd and Gibson, As seven is the number required to form a quorum, there could be no valid nomination. We understand that a special meeting was called for and held on Wednesday, September 20. Mr. Boyd, it was said, was prepared himself to pay the subscriptions of the candidates whose names he and Mr. Gibson were ready to submit. The last move of the pharmaceutical party has brought about practical equality in the voting-power of the rival parties.

THE REVIVAL OF THE SOUDAN GUM-TRADE.

THE recent arrival of numerous consignments of Soudan acacia gum in Trieste, Liverpool, and London points to the reopening of what used to be the main source of our supply of gum arabic. It is almost exactly ten years ago since the regular flow of Soudan products, among which gum arabic and senna-leaves were, from a pharmaceutical point of view the most important, ceased to find its way to the European markets, though for some years subsequent to 1882 small consignments continued to trickle through the silent wastes of the desert by circuitous routes. Not until a considerable time after the actual closing of the Soudan to foreign trade, the want of the gum, which had been the staple kind used in the drug-trade, began to make itself seriously felt. One of the reasons why the Soudan gums did not advance in price as rapidly as might have been expected was that the crops immediately preceding the breaking-off of the communications had been exceptionally plentiful, and that a very large stock had accumulated at Trieste and other ports. Another reason was that no one in the trade had the least idea that the isolation of the equatorial provinces of Egypt would last longer than one or two seasons at the most. Such a complete and prolonged cutting-off from the outer world of an immense tract of country, as we have witnessed in the case of the Soudan, is quite unprecedented in the history of modern commerce, and will probably never be repeated, while the growing tendency to introduce economic products in exotic countries where the conditions seem favourable to their successful cultivation, tends to diminish rapidly the discomforts that formerly resulted whenever an area of production became temporarily inaccessible. In the case of senna-leaves, for instance, the closing of the Soudan has been hardly noticed, as the supplies which we receive from Southern India have been quite sufficient to prevent any scarcity. The cessation of the Soudan gum-trade, too, called forth abundant supplies from many countries, including several which had never been suspected to be able to furnish the drug, while it stimulated the efforts of technical investigators to discover processes for the manufacture of gum substitutes, and for rendering soluble certain kinds of acacia of which the natural supply was known to be plentiful, but which were rendered practically worthless by their insolubility.

These efforts have been crowned with a not inconsiderable measure of success, and it is now generally admitted that artificial gums have superseded the natural product in many manufacturing processes. But it is by no means unlikely that the opening of the ordinary sources of supply may again drive the substitutes off the market, especially if the price of Soudan gums should once more fall to the level occupied just before the Egyptian campaign and the rise of the Mahdi.

This contingency is rendered still more probable by the fact that the Kordofan gum is admittedly the best for pharmaceutical and confectioners' use, that, in nominal times, it is obtainable in sufficient quantity to satisfy all requirements, and that it can be sold at prices which will favourably compare with those of its competitors.

The first effect of the internal troubles in the southern provinces of Egypt upon the gum market was a rise of "Turkey sorts" (*i.e.*, the natural gum from Kordofan, from which the white drop is selected) of about 5*s.* to 7*s.* 6*d.* per cwt. At that time, when 45*s* per cwt. was considered a fair price for "sorts," such a rise was serious enough. At the end of 1882, however, fresh supplies were received in Cairo, and it was not until the latter part of 1883 that speculators began to concern themselves seriously with the article, the result being a rise in value to the then exceptionally high point of 110*s.* per cwt. Although a momentary depression followed, a renewed and steady rise in prices set in again at the end of 1883. The extent to which it was warranted may be gathered from the fact that the arrivals of gum arabic in Trieste, which in 1880, with a nominal trade, amounted to 20,637 serons, declined to 10,333 serons in 1883, and to 5,933 serons in 1884. By the autumn of 1885 almost the last seron of old stock in the importers' hands had been cleared, and in February, 1886, only eight serons of genuine Soudan sorts, it is said, were left in Trieste. About that time 220*s.* per cwt. was paid for natural Kordofan gum in Liverpool, and a year afterwards the same kind of gum

actually realised 340*s.* per cwt. That was the highest figure of which we have a positive record, though it is said the business was done at still higher rates. In the beginning of 1887 the Soudan was officially proclaimed open to trade; but, although it was freely stated that immense stores of gum had been hoarded at various points of the country, in anticipation of the resumption of traffic, nothing worth speaking of was forthcoming. Matters remained in this condition until last July, when consignments of Soudan gums commenced to arrive in Liverpool, and by the latest accounts large shipments are on the way to various European ports. These shipments probably consist of gum arabic of the crop which was harvested in Kordofan in the beginning of this year, and there is every prospect that what is now on the way will be sufficient to keep the prices down to a point close to that they have now reached—viz, 75*s.* to 80*s.* per cwt., until next season's crop is ready for the market.

One effect of the resumption of the Soudan trade will probably be to depress still further the value of the heavy stock of East Indian, American, Australian, Niger, and Cape gums, which has accumulated in London and Liverpool. The finer Cape and Mogadore gums, and the gum from the Senegal district, which profited greatly by the absence of Kordofan acacia, will either have to come down in price very considerably, or withdraw from competition. The Bordeaux firms who control the Senegal gum which has served pharmacists well while their accustomed source of supply was blocked, have reaped a splendid harvest while they had a chance, and the clipping down of their profits to a reasonable margin will not be regretted. Exporters of East Indian gums will do well to moderate their shipments, so as to give their correspondents here an opportunity of working off the ten or twelve thousand bales that are lying in our warehouses. As for the Niger and Brazilian gums, if they do not become drugs of the past it is at any rate probable that they will soon recede to something like the position of pharmaceutical curiosities which they occupied only a few years ago.

THE NEW SESSION.

With the close of September holidaying comes to an end, and the winter's work of schools and societies begins. The alteration of the dates upon which the English Pharmaceutical Board of Examiners has been accustomed to meet has caused an alteration also in some of the training-schools, the session with them now beginning in August. But this only affects those who are eager to meet the examiners in October, and the latter month is likely to remain for scholastic, as for scientific purposes, the beginning of the session. At any rate, the School of Pharmacy, which is generally regarded as touching the high-water mark in pharmaceutical education, retains the old order of things, and it is not probable that it will ever depart from this. October 5, therefore, is fixed as the date of the opening of the session at Bloomsbury Square, and this year exceptional interest is attached to the occasion from its being the fiftieth anniversary of the opening of the School. It has a brilliant record to look back upon. Men have come out of the School who have stuck to pharmacy and done well for it, and many have been trained there too, even through scholarships, who have preferred to attach themselves to higher branches of science, and it is to the school's credit that the names of some of its pupils have illumined the annals of chemistry and medicine. The pæan which the occasion requires should be a sparkling one, and Mr. Carteighe, the singer of the day, as a student of the sixties, should do justice to his theme. We shall not anticipate him. There is just one point which requires comment: it has been decided to meet on the occasion at 3 o'clock in the afternoon. We hope that that experiment will not be repeated throughout the winter. Afternoon meetings of a scientific nature are not at all popular, even in the ethereal precincts of Albemarle Street and Piccadilly. The hour of 3 would kill the pharmaceutical meetings for ever, and, in spite of the interregnum of lectures, we trust that the evening meetings will be resumed this winter with a good dash of the old enthusiasm and vigour. We sadly want another Redwood to manage them. Sheffield has the credit of being second in the field, the Chemical and Pharmaceutical Society there having secured Mr. W. G. Cross to open its session on October 13, but we hear that the Assistants' Association have the arrangements for the first part of the session complete, and after the kick-off on the Fifth they will be prepared to put a good team in the field. And what is being done out of London? That is what we wish secretaries of associations to tell us now. To assistants' associations, which at the present time constitute the bulk of co-operative effort in the progress of pharmacy, we would repeat the advice which we have given so often—that their efforts should have the primary object of improving themselves. As soon as they begin to compete with each other for a reportorial record, so soon do they neglect the first functions of their existence. We hope to see proof of personal effort in the winter's programmes; but let there be distinct evidence of educational aspirations, and a desire to foster sound business principles as well as abstract science.

COMMENTARY.

How Can This be Balanced?—The twenty-fifth annual report of the Hospital for Epilepsy and Paralysis has inserted in it a crimson slip bearing these words:—"The balance at bank at the end of April, after allowing for the current accounts to date, would be only 65*l.*" How can the committee of management reconcile this statement with the fact that the 60-page report is printed on hand-made paper, bound in all the elegance of parchment covers? In "a brief appeal" the committee state that the average annual receipts from all sources are 1,006*l.*, and the expenditure 2,026*l.*, showing a deficit of 1,020*l.* Yet, two pages before, the ordinary income are shown to have been 1,711*l.* 16*s.* 9*d.*, and the expenditure 1,839*l.* 5*s.* 8*d.*, but there was money enough in hand to invest 300*l.* in New Zealand Government Stock. These also are figures which do not balance happily.

For a Circular Competition.—A Darlington chemist, who describes himself as A.P.S.G.B., issues an ingeniously-worded circular about his "Taraden bitters." This is the formula for them as he prints it:—

Barabet (kidney stimulant).
Hops (nervous stimulant).
Soffina (an alterative).
Popeltat (for constipation).
Picel (tonic bitter).
Gelut (digestive agent).
Ophet (dyspeptic tonic).
Taraden (liver stimulant).
Of each, two pennyworth.

Then follow therapeutic details concerning each of these ingredients. The names quoted appear to be invented to disguise pretty well known drugs. *Barabet* is buchu (*Barosma betulina*); *Soffina*, sassafras (*S. officinalis*); *Popeltat*, podophyllum (*P. peltatum*); *Picel*, quassia

(*Picræna excelsa*); *Gelut*, gentian (*G. lutea*); *Ophet*, chiretta (*Ophelia chiretta*); and *taraden* is *Taraxacum dens leonis*. Gelut, we are told, "is a herb which grows on the snowy peaks of the Alps"; soffina is one of the products of that immense and fertile country, North America. Among its qualities it is declared to be "an excellent skin inhaler." The author of this circular assures his readers that he "is not a quack or an unknown person, who is seeking to gain money by unscrupulous means. He is an ardent student of drugs, and possesses the silver medal gained at the Edinburgh College of Chemistry and Pharmacy, after two complete examinations. He is a qualified chemist, by examination, and an Associate of the Pharmaceutical Society of Great Britain." If his compound does not do all that he claims for it it will not be for want of bitterness.

A MODERN BURNS.—They say in Scotland of a woman with a handsome dowry that she has "a good tocher." Can we say that of the gentleman who indites the following extraordinary advertisement, which we cut from the *Ayrshire Post*:—

THE DAY HAS COME.

Eager they run, as the crowd to see a fight. You'd be interested, where ——certainly, when our immortal Burns had a hand in it. Do not give yourself the opportunity to regret that you are dying when you discover for the first time that you could have lived at least twenty years longer. Oh to think of it. But we give you credit for more sense. Consider what Burns said:—

Pity the sickly human race
That die before your very face,
Sundry disease, then bad complexion,
Pain, misery, and sad dejection.
But don't untimely leave this strife,
Time is saved by lengthening life,
Health and beauty first secured,
Comfort and happiness then insured.
As "Tocher's Drugs" are widely spread,
Cure you when you're half-way dead,
Like tooth extraction without shiver,
The moment out, is gone for ever.
And eager runs the ailing crowd,
When "Tocher's Drugs" resounds alond,
"Tocher's Drugs" are standard sure,
All excellency, very pure,
Active as the electric spark,
Make matters bright when all is dark.

There's a hint for you and more. Tocher's Drugs are as Shakespeare says—"Pure as the unsullied lily." Tocher's Perfumes—"Sweet as the flowers." Tocher's Medicines for health and beauty.

ROBERT TOCHER, Ph. C., &c.,
10 High Street, Maybole.

LATIN PRESCRIPTIONS.—The *Globe*, which is good enough to assume a general oversight in regard to pharmaceutical affairs, defends the employment of Latin in prescriptions. The question arose in reference to the prescriptions in Latin which the College of Physicians had given for the prevention of cholera. A physician had attacked the form of the formulæ, and he, the *Globe* writer said, "should have been acquainted with at least a few of the reasons which have been given over and over again for maintaining a doubtless unpopular and apparently pedantic practice. No doubt, with particular reference to cholera, a moderately unlearned person, if attempting to make up a prescription for himself, might interpret 'Mist. Cretæ aromat.' as a drop of the 'Creta'—*Hibernice*, 'Cratur'—mixed to taste, instead of an uninteresting chalk mixture. But as a rule the moderately unlearned do not attempt to make up their own prescriptions; and it is just to prevent them from doing so that abbreviated Latin, of a professional quality, is deliberately employed. The principle of every man his own dispenser would not be very different from a general licence for the commission of suicide, at any rate, if not of manslaughter. There are persons who argue that if 10 drops will do them good, 20 drops will do them twice as much good, and 30 drops three times. There are others who would regard cheapness as of more importance than quality in the purchase of materials. There are others who argue that what cured A of one disease will accordingly cure B of another—the belief in a panacea being by no means extinct—and will pass the prescription on. But it is impossible to enumerate the possible, or even the actual, vagaries of the human mind in relation to medicine. Physicians know them, and, quite apart from their own interests or from any sympathy with the apothecary, they have learned from experience how necessary it is to keep out of mischief those who have not education enough to realise the danger of a prescription not meant for a particular person, for a particular disease, at a particular moment, and under particular circumstances. The Latin for poison is distinctly preferable to the English for homicide."

BOTANIC OBSCURITIES.

RECORDS of smart replies by pupils in Board schools to questions put by their teachers have of late years become so general that the truth of many of them is doubted. Now that technical education is rampant and lectures to all classes are becoming common, we may expect to read some 'cute remar ks on deep scientific subjects. As an illustration of what effect lectures have on some minds, a contributor sends us the following verbatim extracts from the note-books of some pupils of his who attended a course of lectures on economic botany, given during the present summer. The members of the class would have been thought to possess abilities somewhat above the average, but when the writer began to elaborate their rough notes their abilities seem to have been put sorely to the test.

On the subject of oak-galls one man wrote as follows:—"Galls are obtained by means of a puncture of an insect into the bark and deposits its eggs underneath. The sap all flows to this and covers the eggs. These eggs hatches and flys away in the shape of a fly. It is a very powerful astringent." The same man informed us that "beech-seeds contains an oil and is used for pecuniary [culinary] purposes."

Another man evidently got somewhat mixed on the subject of wax and water for candle-making, when he wrote as follows:—"*Myricas*. The wax is obtained from the fruits by emerging them in water which is used for candle-making."

It will, perhaps, be interesting to some botanists who have always associated the palms with tropical countries to know that "*Palmaceæ* is one of the most important natural orders in the United Kingdom." The association of the vegetable kingdom with the United Kingdom in this paragraph makes all the difference.

The following will be of especial interest to pharmacists:—"Gum arabic is obtained by making spontaneous execrations in the bark of *Acacia senegal*." "Chamomiles are used for fermentations for inlaying pain." "Arnica is used for a tincture for sprains, bruises, and childblains." "Ammoniacum grows to a large size, and is reliable to the punctures of insects." "Calamus deposits a wax known as dragon-fly" [dragon's-blood]. "The astringency of *Areca Catechu* resides in the illuminations" [rumination]. Then came a few miscellaneous trifles, such as "maccaroni and spermacetti [vermicelli] is made from wheat-flour," that "Hosiers are mostly obtained from *Salix viminalis* and *S. vitellina*," and one man gives a detailed account of the "mode of

extricating the turpentine" from the trees of *Pinus australis*

From these few extracts from unpublished notes of men who have yet their mark to make it will be clear that School Boards have not yet fulfilled their mission.

REVIEWS

AND

LITERARY NOTES.

Poisoning among the Natives of India.

In the new edition of Messrs. Gribble and Hehir's "Indian Medical Jurisprudence," just published in India, a case is cited of seventy men who were poisoned at one time while drinking in a native liquor-shop in Benares the intoxicating spirit distilled from the mhowra-flower. Forty-three of them were conveyed to the hospital and eighteen died outside. One of the servants in the shop, who absconded, confessed afterwards that he had put singhera into the pots in which the mhowra-flowers were steeped. In another instance a young man who had incurred the censure of his family by his dissipated life proceeded to poison them all. He purchased an ounce of aconite-root, which he pounded on a brick, and then put the powder into the vegetable broth for his brother's dinner. Four persons partook of the broth, and were seized with the usual symptoms. The brother died; two women of the family recovered. It is stated that the evidence of the civil surgeon proved that the death was occasioned by aconite, and the crime was brought home to the poisoner, who was brought to justice. Dr. Cuevers gives a case from the North-Western Provinces *Police Gazette* of a young man of 21, who confessed that he had—so far as he could remember—poisoned twenty-seven persons. He was, it is added, a professional dhatura poisoner.

A New Course of Experimental Chemistry: Including the Principles of Qualitative and Quantitative Analysis, being a Systematic Series of Experiments and Problems for the Laboratory and Class-room. With Key. By John Castell-Evans, F.I.C. London: Thomas Murby. 8vo. "Course," 236 pp. Key, 204 pp. 6*s*.

We have already expressed a favourable opinion of Mr. Evans's "Course" of experimen s, and it is unnecessary that we should now say anything more about it except that it is issued along with a "Key and Companion," which is intended for the use of 'the conscientious teacher and the earnest student." It contains good lecture-notes or lesson-outlines, explanations of all the experiments, and solutions of the problems. We should like to see pharmaceutical students taught chemistry on such principles as Mr. Evans sets forth. Even though they only had fifty selected experiments to work out, it would do them far more good ultimately than the wearisome identification of simple salts in solution. But, first, we must have more of "the conscientious teacher and earnest student" element in our calling.

Milk: A New System of Rapid Analysis. By J. Barker Smith L.R.C.P. Lond.

This is a pamphlet—a 1*s*. pamphlet—octavo-size, 24 pages, including title-page and preface and the blanks at the back thereof. It is "specially written for Medical Men, Veterinary Surgeons, Chemists, Sanitarians, Dairymen, and Householders." Mr. Smith is kind. He says that "the dairyman or householder may, by his new rapid process, ascertain *in one minute, and from a teaspoonful of milk, the percentage of added water, percentage of albuminoids, and integrity of the sample of Milk, Cream, Buttermilk,* and *Whey.*" That is the first sentence of the preface in all its italic beauty, and, reading it with the first-quoted sentence, we conclude that the common herd which goes before dairymen and householders is unable to perform the one-minute trick. After reading the pamphlet, and feeling the impact of the cold and boiling *normes* and the gentler kiss of the boiling and cold *subnormes* upon their cerebral hemispheres, we should not think they would try. Seriously, Mr. Smith takes the measure of permanganate of potash decolorised by a known volume of milk as his basis for calculating its total solids, except fat, and that, we say, is not good enough in the year 1892.

Manual of Urine-testing: Including the Physical Characters, Qualitative and Quantitative Examination of the Urine, together with the Clinical Information to be derived therefrom. Edited by John Scott, B.A. Belfast: W. Mullan & Sons. Pp. 25. 1*s*.

This is for the vest pocket. It is concise, neatly arranged, and contains the particulars and directions which are required in everyday urinalysis. The title sufficiently describes the scope of the "Manual," but, of course, the author has not allowed himself space to be critical.

A Lecture Course in Elementary Chemistry. By H. T. Lilley, M.A. London: 1892. Simpkin, Marshall, Hamilton, Kent & Co. 8vo. Pp. 150 3*s*.

We think the publication of this book is a mistake. Not that it lacks merit—indeed, it is well and carefully written and the author knows his subject, but his method is altogether wrong. He states that he has limited himself to "such ground as students are expected to cover before leaving school or entering upon a specialised course of instruction," and it is upon this basis that we must, of course, form our judgment. Now, the teacher of those who for the first time step on the threshold of science must ever keep in view the comparative weakness in reasoning-power of the juvenile mind, and its intense curiosity in regard to simple physical facts. The latter is the gate which naturally opens to the teacher, and the path thus exposed must be used to lead up to the higher one in which reason or intellectual force plays its part. On these lines such a course of chemistry as the average school-boy can take in during the last period of his school career must be very limited in extent, being chiefly directed to instruct him in regard to the properties of matter, and the more important chemical influences which determine change therein. Hence the gaseous elements and one or two of the metals suffice to provide the experiments that will attract the pupil, and the basis for the education in the principles of the science. Mr. Lilley misses this entirely. Instead of sticking closely to general principles, he goes right through the gaseous and more common metallic elements, even describing the preparation and properties of many metallic salts. This method fails because the majority of pupils have not the memory to take in the exceedingly large mass of material (much of it useless) thus presented to them. The author is, too, somewhat obscure occasionally, his language lacks the simplicity necessary for tyros, and he has not the knack of popularising—*e g*, carbon dioxide is not once mentioned as carbonic-acid gas. He tells us that this gas does not support animal life because "it prevents the access of air to the lungs"! We have noted a number of misstatements such as this. The effort at condensation is probably accountable for some of the slips, but the facts remain that they are there, that the "course" is not an ideal one for beginners, and that it lacks many of the details which would have adapted it for senior students.

The Principal Starches Used as Food. By W. Griffiths Cirencester: 1892. Baily & Son. 8vo. Pp. 62. 5*s*.

This is a collection of admirably-executed photo-micrographs (twenty-five in all) of the principal starches. The pictures alone show the characteristic features of each starch, and scarcely need the pithy and interesting notes which accompany them. The collection will be of much use to those who require to determine adulteration of food-stuffs, but the book has distinct educational value. Pharmacists, especially, will appreciate this effort of one of their number.

OFFICIAL APPOINTMENTS IN PHARMACY.

Naval Hospital Dispenserships.

There are fourteen dispenserships in the naval hospitals at home and abroad. Candidates must be not more than 25 years of age, and must hold the Minor or Major certificate of the Pharmaceutical Society of Great Britain, and only Major men can have charge of stores, a duty which adds 1*s.* to 2*s.* to the daily pay. Candidates must satisfy the Civil Service Commissioners as to their physical fitness (fee 12*s.* 6*d.*). The rate of pay commences at 5*s.* per day, increasing to 5*s* 6*d.* per day after five years' service, and thereafter 6*d.* per day every third year until the maximum of 10*s.* is reached. Quarters are provided, and 6*d.* per day for fuel and light. Dispensers at Malta and the Cape have 2*s*, Jamaica and Bermuda 3*s.*, and Hongkong 4*s.* per day extra. Pensions are granted after 60 years of age, or after 10 years' service to those who are discharged as physically unfit. The rate is a sixth of the pay for 10 years' service, the maximum being two-thirds for 40 years' service. Sick-pay is also granted, as well as liberal holidays. Those who desire these appointments should make a written application to the Director-General of the Medical Department of the Navy, and, as vacancies occur, they will be ordered to attend at his office at the Admiralty, Avenue House, 21 Northumberland Avenue, W.C.

Medical Staff Corps.

Dispensing in the army is done by members of the Medical Staff Corps, acting under the supervision of the medical officers. For full particulars regarding the corps see The Chemist and Druggist, of July 30, page 158, and Aug. 20, page 274. Similar conditions now obtain in the Navy.

Poor Law Dispensers

are appointed under powers granted by an order issued in 1871, which regulates the duties of district medical officers, dispensers, and relieving-officers. The qualifications necessary for appointment are the licence of the Apothecaries' Society of London, or registration under the Pharmacy Act of 1868, or, "some other authority of law in that behalf." This last phrase seems now to apply even to apothecaries' assistants; at least, the appointment of persons holding only this qualification is occasionally made.

Dispensers should rank with other officers so far "as salary, appointment, continuance in office, or suspension from duty are concerned"; but in one matter—that of salaries—this seems to have been departed from; while other officials—relieving officers and pay-clerks—may be and are appointed at salaries commencing at 120*l.* per annum, rising to 180*l.*, and are sanctioned by the Local Government Board, dispensers, at whatever sum appointed, must be content at starting with not more than 120*l.* per annum, rising at the end of four years to 140*l.* Since Mr. Carteighe's assurance at the last annual meeting of the Pharmaceutical Society that "this matter was *then* a subject of correspondence" between the Local Government Board and the Pharmaceutical Society, Poor-law dispensers are looking hopefully forward to better times.

The election of dispensers lies in the hands of the guardians, subject to the approval of the Local Government Board. Guardians have also the regulation of the hours of attendance at the dispensary; each dispenser must devote his whole time to the service of the guardians. The appointment is generally outdoor, and, as a rule, no Sunday duty is required; the hours vary according to the needs or custom of the various districts. The duties, as scheduled by the General Order, are:—

1. To devote his whole time to the service of the guardians as a dispenser, and attend at the dispensary as the guardians may appoint.

2. To take charge of, and keep as carefully and safely as shall be in his power, all drugs, medicines, medical and surgical appliances, and medical stores provided by the guardians for use in the dispensary.

3. To compound and supply all medicines, and supply from the stores under his charge all medical and surgical appliances required by the medical officers for use in the discharge of the duties of their office.

4. To prepare and dispense skilfully and cautiously all prescriptions drawn up and ordered by the medical officers, and punctually to supply the medicines when prepared to the persons authorised to receive the same, and, when so required by the prescriptions, to express in writing the proper directions to accompany them.

5. To keep an account in a book, to be supplied to him by the guardians, of the drugs, medicines, medical and surgical appliances, and medical stores, submitted to his charge, and, as nearly as may be, of those consumed or supplied to the paupers, and, from time to time, to lay the same before the visiting committee, and bring under the notice of the medical officers, or the visiting committee, the need for further supply of drugs, medicines, and medical and surgical appliances as and when such need may occur.

6. To assist the medical officers in keeping the alphabetical index of the pauper patients attended.

7. To file all prescriptions supplied to him by, or on account of, the paupers, or by the medical officers, and keep them in the dispensary for not less than twelve months after their date.

8. To prepare from time to time, as directed by the committee, an estimate of any medicines, drugs, medical and surgical appliances, and medical stores, which may be required, and a statement, as nearly as may be practicable, of the quantities thereof used and issued to the paupers, or to the medical officers, since the preceding estimate and statement, and an account of the quantities thereof remaining in store respectively, and submit the same to the committee for perusal; to balance the same quarterly, and to submit the same, made up to the last quarter-day prior to the audit, to the auditor of the district comprising the union or parish at that time.

These regulations apply also to dispensers in Poor-law infirmaries; but there the responsibility is divided with the Chief Medical Officer and the Master of the Workhouse, if attached to the infirmary. The dispenser's salary is practically the same as for the out-department; but he often acts also as hospital clerk, by keeping the diet-books, &c., when his salary is proportionately increased, while, again, in some instances the outdoor dispenser may also dispense for the indoor poor, his salary being increased.

Dispensers are entitled to a fortnight's holiday; in most cases the guardians provide a substitute, but at times they refuse to do so, when the dispenser must provide one at his own expense. In case of sickness the guardians must provide a substitute for a reasonable time, and while the guardians may suspend their dispenser they cannot dismiss him without the sanction of the Local Government Board.

Dispensers in County Lunatic Asylums.

These appointments are practically similar to those of Poor-law dispensers, but are less numerous. Vacancies are generally advertised in the official journals, and dispensers are appointed by the Visiting Committee of the Asylums Board, who, as individuals, are not open to be canvassed.

The candidate, when appointed, must be able to assist the medical officers with the case-books, pathological work, urine testing, and, in some cases, photography.

Prison Dispenserships.

The appointment of compounders in Her Majesty's prisons is conferred on persons between 24 and 40, who hold the Minor and Major qualification. Salaries begin at 120*l.* and increase to 140*l.* per year, with uniform. Applications for full particulars regarding the appointments should be made to the governor of the nearest prison.

LEAVES FROM A RECIPE-BOOK.

Lemon Kali.

Pulv. sacch. albæ ..	.. .. ..	lb. vij.
,, sodæ bicarb.	.. .. ..	℥xxiv.
,, acid. tartaric.	.. .. ..	℥xxvij.
,, pot. supertart.	.. .. ..	℥iij.
Ol. limonis..	.. ..	ʒv.

M.

Soluble Cayenne Pepper.

Digest 1 lb. of cayenne pepper in 1 pint of spt. vin. rect. at a gentle heat for two days; then put it into a percolating-apparatus, and displace the tincture; add to the tincture 1 lb. of common salt, rub them together in a mortar, and add sufficient annatto to give the mixture the proper colour. Then evaporate, and finally dry in a stove at about 120° F. When dried it should be rubbed through a coarse sieve.

Cachou Aromatise.

Succ. Solazzi	℥iij.
Aquæ	℥iij.

Dissolve by the heat of a water-bath, and add—

Pulv. catechu	gr. 462
Gum. acaciæ	gr. 231

Evaporate to the consistence of an extract, and then incorporate the following substance in a fine powder :—

Pulv. mastic.	ʒj.
„ cascarillæ	ʒj.
„ carbo. ligni..	ʒj.
„ iridis rad.	ʒj.

Reduce the mass to a proper consistence, remove it from the fire, and add—

Ol. menth. pip.	gtt. xxx.
Essent. ambergris	gtt. x.
„ moschi	gtt. x.

Mix, and divide into 1-grain pills.

Fumigating Fragrant Pastilles.

Cascarilla	℥j.
Benzoin	℥j.
Camphor	ʒj.
Nitre..	ʒj.
Charcoal	℥ij.
Ambergris	gr. x.
Musk	gr. x.
Mucilage of tragacanth	a sufficiency

Powder the ingredients, mix, and make into a stiff paste with the mucilage. Divide into cones, and dry.

Lavender-water.

(1)

Moschi	gr. x.
Sacch. lact.	ʒj.
Aq. bullient	℥ij.
Ol. lavand.	ʒxiiss.
„ caryoph.	ʒij.
„ bergam.	ʒvj.
Rad. iridis	℥iss.
Spt. vin. rect.	℥lxij.

Digest the musk and milk-sugar in the water for an hour; cool; add to the rest of the ingredients; macerate fourteen days, and filter.

(2)

Ol. lavand.	vj.
Spt. æther. nitr.	℔ ij.
Ess. fabæ Tonkin.	℔ j.
„ ambergris	j.
Spt. vin. rect.	Oxx.
Aq. mellisæ..	Ox.

M.

(3)

Ol. lavand. Ang.	ʒij.
„ „ exot.	ʒij.
Ess. moschi	ʒj.
Ol. bergam...	ʒss.
„ caryoph.	♏xv.
Spt. æther. nit.	ʒij.
„ vin. rect.	ʒxiv.
Aq. flor. aurant.	℥ij.

M.

Anodyne Toothache-tincture.

Mastic	ʒiv.
Tannin	ʒij.
Camphor	ʒiv.
Tincture of myrrh	ʒiv.
Chloroform	ʒiv.
Tincture of opium	ʒiv.
Rectified spirit	℥iij.

Macerate for a week, and filter.

This makes a very good toothache anodyne, as well as a temporary stopping, and it has the advantage of being comparatively innocuous. Send it out in ʒij. bottles, with some absorbent cotton, to retail at 6*d*.

Directions: Dry the hollow tooth by stuffing the hole with the cotton-wool. Remove the cotton, and immediately place in the hole a fresh piece of the cotton-wool, saturated with the tincture.

Essence of Turtle.

Essence of anchovy	ʒxij.
Eschalot wine	ʒxviij.
Basil wine	ʒvj.
Mushroom ketchup	℥iij.
Citric acid	ʒj.

Mix.

TRADE-MARKS APPLIED FOR.

ANY person who has good grounds of objection to the registration of any of the following marks should *at once* communicate with Sir Reader Lack, Comptroller-General, at the Patent Office, 25 Southampton Buildings, Chancery Lane, London, W.C.

(*From the "Trade Marks Journal," September* 7, 1892.)

"LEMONADE," wording, and circle containing geometrical devices, on four-leaved label; for aërated waters. By Reynolds & Branson, 14 Commercial Street, Leeds. The essential particular is the device. 165,673.

"PLANTA BEATRICE"; for an ointment for the complexion. By L. Isidore, 4 Albany Street, Regent's Park, London. 164,795.

Coat of arms; for chemical substances used in medicine and pharmacy. By Kalle & Co., Castelerstrasse, Biebrich, Germany. 166,177.

(*From the "Trade Marks Journal," September* 14, 1892.)

"CAMPBELL'S OINTMENT," signature, and other wording, on label; for ointment for human use. By J. A. Campbell, 64 Commerce Street, Glasgow. The essential particular is the signature. 164,588.

"THE HOUSEWIFE'S FRIEND" and sketch of steering-wheel, on label; for medicated soap. By Wm. Gossage & Sons, Widnes. 165,724.

Sketch of man in top boots and holding riding-whip; for medicinal preparations. By David Williams, trading as D. Williams & Co., 97 Madoc Street, Portmadoc. 165,448.

"BUFFALO," and landscape sketch with a buffalo in the foreground; for chemical substances used in medicine and pharmacy. By the Arracan Company (Limited), 57½ Old Broad Street, London. 165,723.

"HOUP LA"; for medicine for human use. By C. Ellisson, Aire Street, Knottingley, Yorkshire. 165,865.

Sketch of the Old Market Cross, Aberdeen; for mineral and aërated waters. By W. J. Palmer, Holburn Brewery, Aberdeen. The essential particular is the device. 163,858.

"MORRIS SWINTON, MANCHESTER," and letter R in circle; for mineral and aërated waters. By M. Morris and A. T. Morris, trading as Morris & Son, Jane Street, Swinton. 166,182.

(*From the "Trade Marks Journal," September* 22, 1892.)

"TARINE" and facsimile signature; for patent medicine for human use. By A. Bertelli & Co., 6 Via Monforte, Milano, Italy. 156,153.

"LAVARNA"; for patent medicine for human use. By E. West, 102 Judd Street, Euston Road, London. 166,489.

Device of man examining a boy's foot, and wording; for medicated and perfumed soap. By Isdale & McCallum, Caledonia Soap Works, Paisley. 166,394, 166,396.

"SPARTAN BRAND" and device of a Greek warrior with cloak and shield; for extract of beef. By R. R. Whitehead & D. C. McAuslane, trading as Whitehead & Co., 80 Narrow Street, Limehouse, London. 165,578.

Sketch of a bulldog and name of firm, on label; for mineral and aërated waters. By Read Bros., Highgate Road, Kentish Town. 166,188.

CAMPHOR-GROWING IN FORMOSA.

How to Kill an Industry.

In the island of Formosa the camphor-tree is the predominant forest growth, and may be numbered by millions. At present there is enough camphor in Formosa to supply all Christendom for a century. Yet, notwithstanding these facts, the output of the entire island in 1890 was only about 60 tons!

Abundance of Camphor.

At one time the camphor trade was monopolised by the governor of Formosa and his official staff. The annual output ran as high as 250 and 300 tons, and netted the distinguished syndicate over $100,000 a year. The profit can be easily appreciated when it is known that the poor peasant was paid 4 cents per lb. for the camphor, which was sold a week afterwards in Hong-Kong for anything between 25 and 35 cents. The monopoly was abolished in 1870 at the intervention of the Ministers of all the Great Powers at Pekin. Foreign merchants, especially British and American, prepared to enter the trade on a large scale, but the authorities, with characteristic shrewdness, enacted forthwith a likin, or internal revenue tax, which completely frustrated all attempts to do business successfully.

Choked by Taxation.

(1) A tax was imposed upon every pot or boiler, no matter whether used full-time, half-time, or no time at all. This measure caused the camphor-makers to destroy one-half of their plant.

(2) A heavy "battery tax" (or an assessment for the building and maintaining forts in the district) was imposed upon the finished product. This was nominally about 3 cents per lb., but as levied came to twice that figure.

(3) The barrier imposts (or likin proper) were assessed at from 1 to 2 cents per lb. Sometimes a donkey-load of camphor would be obliged to pass six to a dozen barriers between the point of production and the market-place.

(4) An export duty was laid upon the camphor.

(5) A system of terrorisation was set on foot by the subordinate officials, which frightened nearly all the camphor-growers from selling to the foreign hongs. Under these circumstances the trade languished, and the supply demanded by Europe and America was drawn from Japan and other countries.

In 1885-86 there was a change in the administration of Formosa, and a more progressive set of men came into office. They began their regime with promise of reform, of new laws for the extension and benefit of the trade, and of a more generous and equitable treatment of the foreign hongs. The latter were delighted, and made contracts with the native merchants and farmers for large quantities, to be delivered at the place of production and to be brought down to the port under the protection of official permits.

Promises of Reform.

The first consignment arrived promptly and cleared a very handsome profit. The merchants were delighted, but their pleasure was short-lived, inasmuch as the new governor, without a word of warning, re-established the old monopoly. Notwithstanding the contracts then pending between the foreign merchants and native dealers—contracts upon which large sums had been advanced—the internal revenue and Custom House officers seized all the camphor in the market or in transit, permits or no permits. The merchants appealed to the British and United States consular representative in Taiwan-foo, Hon. Pelham L. Warren, in consequence of whose exertions the monopoly was again abolished.

Before the opportunity thus created could be taken advantage of, the local Administration levied a special tax on camphor of 1 cent per lb., exclusive of the internal revenue and export duty. The tax was then raised to 2 cents. per lb. as the price of camphor rose in the Hong-Kong market, and as this did not change the state of affairs, it was again raised, this time to 13 cents per lb. At the same time the camphor-growers were warned by threatening proclamations that they were required to pay this tax in advance upon all camphor produced; that any delinquency or mistake would meet with the severest punishment, but that the "camphor-farm" (a new form of the old Government monopoly) would pay 8 cents per lb. to any and all growers for their crop.

The old Adam returns.

Up to the time of these last enactments the price of camphor had fluctuated locally from 4 cents to 8 cents per lb. It now rose with a jump to 21 cents. The net return to the buyer was about 5 cents on an average; the difference went to the "camphor-farm"—that is to say, about one-tenth part to the members of the official clique, and nine-tenths to the superior officials of Formosa.

This monstrous condition of affairs has remained unchanged since that date. The producers are afraid to deal with the foreign merchants lest they be fined and imprisoned for some technical violation of the law. The merchants are afraid of making contracts which will cause litigation and loss at the hands of the internal revenue and the Customs. The trade has therefore been steadily falling off, and there is every possibility of an utter collapse of the camphor monopoly of Formosa.

The Present Situation.

The monopoly is singularly devoid of intelligence. The Chinese never dare to go into the interior, where the savages live, and where the finest camphor can be had at almost no expense; but they have passed a law prohibiting all intercourse or commerce with the aborigines, and even forbidding the tourist to enter the latter's territory. There is at present some prospect of a change. The old governor has just been removed, and it is quite probable that his coming successor will inaugurate a wiser policy.

A VANILLA PARASITE.

A few years ago, it appears, the Seychelles vanilla-planters were much perturbed by the appearance upon some of their plantations of a vanilla-disease which attacked the best pods on the vine, blackened them at the ends and in the centre, and, in a day or two, caused them to drop off and rot. The Sychelles authorities, believing the disease to be carried to their islands from Mauritius or the Réunion, prohibited the importation of vanilla-creepers from these islands, and applied to Kew gardens for assistance in combating the scourge. The Kew people asked for pods showing the disease in its various stages, but several seasons elapsed before they succeeded in obtaining any sufficiently well preserved to enable them to investigate the origin of the disease with any hope of success. The results of their examinations are embodied in a recent number of the *Kew Bulletin*. They show the disease to be caused by a microscopic fungus, *Calospora vanillæ*. The attacked leaves, stems, and aërial roots sent to England from the Syechelles were all covered with fungi—some presenting the appearance of minute red or amber-coloured subtremelloid pustules upon the leaves, only just visible to the naked eye, and which were found to consist of masses of gonidia of the genus *Hainsea* of Saccardo and Ellis; others (present upon all the dying and dead leaves, along with portions of the stem) being pale-yellow waxy-looking, agglutinated masses of gonidia belonging to the form-genus *Cytispora*. The earliest form of the fungus is the *Hainsea* form, which attacks the living leaves, and by means of its spreading mycelium destroys those organs on which the plant depends for a portion of its food. The *Cytispora* and *Calospora* forms only appear when the leaf is already killed. Experiments made at Kew showed that when the *Hainsea* gonidia are washed off the leaves by rain and carried to the ground, they germinate and produce yeast-like colonies of cells by budding, but what these cells eventually give origin to is unknown. Living vanilla-leaves were infected at Kew with the *Hainsea* gonidia, but always without result, although tried in a variety of ways, both on the upper and under surface of the leaf, and by being placed in wounded parts, from which it is considered that the *Hainsea* cannot reproduce itself directly on the living vanilla-plant. The Kew authorities believe that if all fading and dead leaves were at once collected and burnt, the fungus pest would soon disappear, or be at least so reduced as to produce no appreciable damage.

Fried Snowballs is the diet which Mr. George J. Seabury says that druggists will come to who do not stop cutting.

Notice to Retail Buyers:—It should be remembered that the quotations in the section are invariably the lowest net cash prices actually paid for larg quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable, even for manufacturing purposes.

It should also be recollected that for many articles the range of quality is very wide.

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42 CANNON STREET, E.C., *September* 22

London. The markets have been very quiet this week and there are few alterations to report. In chemicals, citric acid has been in strong demand, and the makers are gradually advancing the prices, while the second-hand are keeping quite close to the manufacturers. Camphor has been again raised by the English makers, the foreigners not following suit, though most of them are out of the market at present. The Scotch chloroform makers have advanced their price. Tartaric acid and cream of tartar are very dull, and if anything again a shade lower. The price of permanganate has come down to its normal condition. Quinine is inactive and a little easier. Salicin is quoted lower. In some quarters in crude drugs the principal excitement has been in crude camphor, in which a very large trade has been done, and now there is scarcely anything left on the spot, much higher prices being quoted. Ergot of rye has also advanced. Cinchona sold steadily at Tuesday's auctions. Ipecacuanha has sold privately at dearer rates, and we also hear of a sale at full prices of cascara sagrada. Persian opium is dearer, and more money is asked for chamomiles, while manna remains very high. Most importers of eucalyptus oil have put up the prices of their brands. The market for orris-root is wavering, and tending lower; star-anise and American oil of peppermint are easier, and the price of valerian-root is also coming down. In outside articles the principal changes are an advance in chillies, olive oil, cinnamon, and arsenic. Bleaching-powder and carbolic acid remain fairly steady; shellac has been irregular, but closes dearer; benzol and stick-lac are both lower.

Liverpool. Our Liverpool correspondent tells us that there have been several alterations in the castor-oil market since his last report. Copaiba remains firm, notwithstanding the arrivals that have taken place. Huanoco coca-leaves have been sold at low prices. Chlorate of potash keeps high. Turkey gum arabic in sorts is rather lower to buy. Guinea grains have improved, while Chilian honey sells at steady rates. African ginger is very firm and dear.

New York. Writing under date of September 12, our New York correspondent states that there is an active jobbing business going forward in the general line of drugs, while the cholera scare has given a pronounced run to *Carbolic acid*, *Bleach*, and some other disinfectants. *Castor oil* is steady at the recent advance. First hands have been cleared of *Angostura* and *Pará Copaiba* at firm prices. *Central American* is available at 32½c. to 33c. No business is reported in *Tonquin beans*, which are quoted at from $2.25 to $2.50 for Angostura, and at 40c. to 50c. for Pará. *Vanillas* are active in a jobbing way at $3.7 as to quality. HGH *Peppermint oil* is being more inquired for, and there has been a slight reaction from the downward tendency of the market. Some 75 cases have been taken up on private terms. The principal holder is "bearing" the market by offering jobbing parcels at $2.50, while in round lots $2.60 has been declined, and it is even reported that $2.65 would be paid if a seller could be found. Bulk oil is held rather higher out of town than in town, though there is no great amount of business going forward. Domestic *Pennyroyal* is scarce, and prices vary as to holder, presumably on the score of quality, as high as $2 75 being asked; but it is said that country holders are prepared to accept reduced figures. A parcel of 50 bales of Mexican *Sarsaparilla* has just come in, having been previously placed at 12c. It is claimed that none of this is available for outsiders, and that the nominal figure of 17c. to 18c. will be maintained. It is yet too soon to report on this; but 17c. is a high price, and sarsaparilla corners are notoriously prone to break down. *Jalap* is quiet but firm at 32½c. to 37c. *Ginseng* is rather weak at $2 35 to $3 40 as to quality. *Senega* is held firmly at 33c. in the West for prime goods (equal to 34½c. here); for spot goods 37c is wanted here, and it is stated that this price has been paid for one 500-lb. lot. *Quinine* is gaining ground, and there have been sales of some 100,000 oz. at prices gradually advancing up to 18½c. to 19c. for foreign in large bulk. Domestic is still held at 20c. to 27c, and the near approximation of this price to that for the foreign has resulted in an increase in business in the home-made article.

Expenses on Java Cinchona.

In 1891 the average expenses on Java cinchona-bark sent for sale to Holland were estimated at 4*s.* 2*d.* per 100 kilos. for carriage from the plantation to the shipping port, and at 15*s.* 10*d.* per 100 kilos. for freight, insurance, brokerage, and sale expenses, the total being, therefore, exactly 20*s.* per 100 kilos., or 10*s* per cwt. The total expense thus incurred on the 3 608 000 kilos. exported from the island in 1892 was 36,000*l*, and the planters are beginning to ask themselves whether it would not be worth the expense of starting a quinine-works in the island to save such a sum as that.

Discrepancy in Cinchona Analyses.

In our issue of September 3 we called attention to a parcel of 89 bales of Ledgeriana shavings from the Government plantations in Java, which was sold by auction in Amsterdam on August 25 at the parity of 11½*d.* to 12½*d.* per lb., and the published quinine-sulphate test of which was 12·5 per cent. Our Amsterdam correspondent now points out that this percentage was declared by the official analyst in Java, where the Government barks are tested, but that when re-analysed in Amsterdam the bark was found to contain only 9·8 per cent. of quinine sulphate. Hence the price paid at auction gave a unit of nearly 1¼*d.* per lb., instead of one of less 1*d.* per lb, at which the official analysis declares the sale to have been effected. "There are sometimes," adds our correspondent, "big differences between the Java Government tests and those made independently in Amsterdam." The buyers evidently place most reliance upon the latter, which does not say much for the efficiency of the Java Government laboratory.

The Therapeutical Action of Ergot of Rye.

An important contribution to our knowledge of the therapeutical action of ergot has just been published in the *Proceedings of the Dorpat Pharmacological Institute* by Mr. A. Grünfeld, an assistant of Professor Kobert, of Dorpat Mr. Grünfeld arrives at the same conclusions to which Professor Kobert himself was led some years ago, after giving the subject of the poisonous properties of ergot prolonged consideration, and which are in direct contradiction with the published experiences of many medical men. According to Grünfeld, the efficacy of ergot is strongest in the period immediately preceding the ripening of the rye; it decreases slightly (no matter whether the ergot is preserved whole or powdered) in July and August, and in a more pronounced manner in proportion as its age advances, until it disappears altogether by the time ergot is eight months old. According to Grünfeld, the therapeutic doses of ergot should be increased for every month of its age; thus, if to produce a given effect 15 grains of newly-harvested ergot suffices in July and August, 30 grains will be required to produce the same effect in September and October, 60 in November and December, 120 in January and February, and 160 in March and April, while in May and June the drug has become practically inert. Kobert, it may here be mentioned, has given it as his opinion that ergot

should be removed from the list of medicines in practical use during two or three months of the year.

Quinine Manufacture in Italy.

The two Italian quinine factories (in Milan and Genoa) produce together from 1,000,000 to 1,250,000 oz. of quinine-salts per annum, two-thirds of which are exported. So, at least, says a German official report on the trade of Italy.

ACID (CARBOLIC).—Liquid acid is coming down in price. 95° to 98° may now be had at 1*s.* 8*d.* to 1*s* 10*d.* per gallon. Crystals, however, have not changed, 6*d* per lb. being the price for 39° to 40°, and 5*d.* for 24° to 35°. Ordinary dark kinds of liquid acid are almost unsaleable.

ACID (CITRIC).—The English makers now ask 1*s* 6½*d.* per lb. for B.P. acid, but in second hands it is still possible to buy at 1*s* 6*d.* per lb. Sales have been made at that figure. *Juice* is reported dearer—viz., 21*l.* to 21*l.* 10*s.*, f.o.b. Messina.

ACID (TARTARIC) shows no life whatever. The English manufacturer of B.P. acid asks 12*d.* to 12¼*d.*; second-hand English offers at 11½*d.*; foreign from 11⅛*d.* (perhaps 11*d.*) per lb. upwards.

ANISE.—China *Star-anise* is quite nominal on the spot at 110*s.* per cwt., but practically there is nothing offering. For arrival lower prices have been accepted—viz., from 82*s.* 6*d.* down to 76*s.* per cwt., c.i.f., for October-December shipment. *Russian* anise has advanced from 20*s* to 25*s.* per cwt. for available lots, and is scarce at that figure.

ANTIMONY.—Crude Japanese slow of sale at 26*s.* on the spot. To arrive bids at 25*s.* are being solicited, but are not forthcoming.

ARSENIC has further advanced, and for best white powder on the spot 13*l.* 10*s.* per ton net must be paid, while the c.i.f. quotation is 13*l.* net.

BENZOL.—A slow market. Nineties are worth 1*s.* 7½*d.* to 1*s.* 8*d.*; fifties, 1*s.* 4*d.* per gallon.

BLEACHING-POWDER.—The market is not quite so firm as last week, and 10*l.* per ton would be accepted for prompt delivery, ex wharf, here in softwood casks. October delivery may be bought at 8*l.* 10*s* to 9*l.*, f.o.b. Liverpool or Tyne, and more distant delivery about 20*s* below those figures. Plant-extensions are now in progress at some of the Tyneside works, which, when completed, will cause the possible output to be greatly increased. The present price of this chemical is said to represent a clear profit of over 4*l.* per ton to the manufacturers.

CAMPHOR (CRUDE).—Though it is very difficult to obtain precise details, there is little doubt that there has been quite a run on the article—the reason for this, it is said, being a telegram announcing that a typhoon had visited the island of Formosa, and effected great damage. It is said that 150*s.* per cwt. has been paid for Japan camphor on the spot, while the same quotation is made for China, very little of either being offering. The orders are principally from America, and the total business reported amounts to about 4,000 piculs, almost equally divided between China and Japan camphor. The *Bellona* has just arrived with a large cargo, but all of this has already been sold before arrival. The sales, so far as can be ascertained, comprise Japan at 140*s.* to 150*s.* landed terms (155*s.* being now asked, with few sellers), and at 130*s.* to 137*s.* 6*d.* per cwt. c.i.f. for arrival. *China* camphor has been sold at prices ranging up to 127*s.* 6*d.* c.i.f. to arrive, and 135*s.* c.i.f. is asked now. On the spot 160*s.* is the last quotation. This is what a circular from a China export house says, under date of August 18:—"Japan is nominally quoted at $42, without stocks. Of Formosa camphor, the existing stock of 206 boxes, and another 550 boxes which have arrived, were sold during the last fortnight at prices ranging from $39 to $39¾ per picul. Our market is now bare of stocks. Tendency firm."

CAMPHOR (REFINED).—On Monday the English refiners marked their camphor quotations another peg upwards—making bells 1*s* 10*d.* per lb., and flowers and tablets in proportion, with an allowance of ½*d.* per lb. on half-ton lots. The German agents have received no instructions as yet to alter their prices, but they say that they are not sellers at this moment, though they would be willing to submit bids of 1*s.* 6½*d.* still. For small French bells (German shape) the last quotation was 1*s.* 7*d.* per lb., but the agents are practically out of the market.

CANARY-SEED.—The market appears easier and dull. Somewhat considerable supplies have come in from Morocco, and at the spice auctions this week 67 bags fair Tangier seed had to be bought in at 75*s.*

CANTHARIDES.—*Russian* flies are reported dearer on the Continent. *China* cantharides are dearer, 1*s.* 5*d.* per lb. having been paid privately for fair quality.

CARDAMOMS.—Exports of cardamoms from Ceylon, between January 1 and August 29:—1892, 239,308 lbs.; 1891, 188,794 lbs; 1890, 215,350 lbs.; 1889, 183,705 lbs.

CASCARA SAGRADA.—One broker reports that he has made a sale this week at 25*s*, and that his principals had thereupon raised the price of the remainder above that figure. There are, however, plenty of other parcels to be had at 25*s.*

CHAMOMILES.—The crop in Belgium is now harvested, and prices are tending rather higher; finest white flowers are quoted at from 67*s.* 6*d.* to 70*s.*; very dark and ordinary to fair at from 47*s.* 6*d.* to 56*s.* per cwt.

CINCHONA.—At Tuesday's public auctions a fairly large assortment of bark was offered, the catalogues comprising the following totals:—

	Packages		Packages	
Ceylon bark	989	of which	989	were sold
East Indian bark	461	"	327	"
Java bark	42	"	42	"
West African bark	89	"	89	"
South American bark	761	"	299	"
	2,342		1,746	

The bark was generally of pretty good quality, and sold well with vigorous competition at a unit of fully 1¼*d.* per lb., or just a shade above the last auction rates. About one-fourth of the East Indian bark was bought in at limits much above its present value, and some 350 bales of old Cuprea were taken out as usual. We believe that 98 bales of Cuprea bark were sold privately the other day at 3*d.* per lb.—the first sale of this kind of bark which has been made for a long time. The following are the approximate quantities purchased by the principal buyers:—

	Lbs.
Agents for the Mannheim and Amsterdam factories	162,905
Messrs. Howards & Sons	77,040
Agents for the Brunswick factory	68,294
" Frankfort-o/Main and Stuttgart works..	27,310
" Auerbach factory	21,953
" American and Italian works.. ..	17,375
" Paris factory	1,680
Sundry druggists	18,870
Total quantity of bark sold	395,427
Bought in or withdrawn	52,810
Total quantity offered	443,237

It should be well understood that the quantity of bark bought gives little or no clue to the quinine represented by the purchases, as firms who buy little will sometimes bid for rich barks only, and *vice versa*. The following are the prices paid for sound bark:—

CEYLON CINCHONA.—*Original*.—Red varieties: Ordinary thin woody chips, 1¼*d.* to 1¾*d.*; fair to good bright quilly stem and branch chips, 2*d.* to 3½*d.*; chips and shavings mixed, 2*d.* to 3*d.* Yellow fair to good quilly chips, 3*d.* to 5*d.* Grey: Ordinary to fair quilly chips, 2*d.* to 3*d.*; fair shavings, 2½*d.*; fair to good quilly Hybrid stem and branch chips, 2½*d.* to 4½*d.*, ditto shavings, 2½*d.* per lb. *Renewed*.—Red Varieties: A large quantity of fair to good bright strong quilly stem and branch chips, 2½*d.* to 3¾*d.*; fine ditto, 4½*d.* to 5*d.*; ordinary thin twigs, 1¼*d.* to 2*d.*; fair shavings, 2½*d.* per lb. Good yellow chips, 8*d.* per lb. Fair grey chips, 4*d.* to 5*d.* per lb.

EAST INDIAN CINCHONA.—*Original*.—Red Varieties: Fair irregular druggists' quill, 3¼*d.*; mixed chips, 2¼*d.* to 2½*d.*;

fair bright quilly chips, 2½*d.* to 2¾*d.* per lb. Grey varieties: common lean to good strong quilly stem and branch chips, 2*d.* to 5½*d.*; fair to good chips and shavings mixed, 3¾*d.* to 5*d.*; good root, 4¾*d.* to 5½*d.* per lb. Renewed red chips, 3¾*d.*; grey chips, fair, 4½*d.*; good to fine strong quilly, 6½*d.* to 8½*d.*; one lot of 10 bales of very fine quality, testing over 8 per cent. of quinine sulphate, 10½*d.* per lb. For a parcel of fine shavings a bid of 7¼*d.* per lb. was refused, 10½*d.* per lb. being named as the price.

OTHER BARKS.—*Java* Ledger chips sold at 3*d.* to 3½*d.* per lb. For fair sound *red* African bark in quilly chips 3½*d.* per lb. was paid, and a parcel of South American *Calisaya* from the Bolivian plantations realised from 5*d.* to 6½*d.* for fair broken, and from 7*d.* to 8*d.* per lb. for good stout quill, damages bringing from 7*d.* down to 4½*d.* per lb. Exports of cinchona from Ceylon from January 1 to August 29, 1892, 4,171,955 lbs.; 1891, 3,429,621 lbs.; 1890, 5,295,896 lbs.; 1889, 6,194,962 lbs. The quantity of cinchona brought to Colombo by the Ceylon government railway from up country between January 1 and August 7 was 1013 tons in 1892, against 1,024 tons in 1891. The shipments from Java in the month of July of the last five years, were:—

—	1892	1891	1890	1889	1888
	Amsterdam lbs.	Amsterdam lbs.	Amsterdam lbs.	Amsterdam lbs.	Amsterdam lbs.
Government plantations	10,162	60,930	12,487	34,827	11,021
Private plantations	268,932	1,103,173	373,025	270,510	162,980
Total ..	279,094	1,164,163	385,512	305,337	174,001

CHILLIES.—*Zanzibar* chillies have considerably advanced, and for good bright quality 65*s.* per cwt. is asked, a rise of fully 15*s.* At the auctions from 61*s.* to 69*s.* per cwt. was paid for fair to good bright *Sierra Leone*. *Capsicums* sold at 28*s.* 6*d.* for small red Madras, and 85*s.* per cwt. for fine picked Natal.

CHLORATE OF POTASH.—The Alkali Union's price is now 3*d.* per lb., f.o.b. Liverpool, but second-hand sellers, both at that port and here, are willing to take from 7½*d.* to 7¾*d.* per lb., according to quantity.

CHLOROFORM.—The Scotch makers have advanced their prices to 1*s.* 4*d.* and 1*s.* 5*d.* per lb. respectively.

CINNAMON.—There has been more demand, with sales of 100 bales Ceylon, usual assortment, at 5¾*d.* c.i.f. terms for September–October shipment. At auction 123 bags Ceylon chips were partly sold at 1⅝*d.* per lb.

COCA.—Two cases Darjeeling (E.I.) coca, small and partly broken thin leaves, of little flavour, were bought in at 1*s.* per lb., and one bale of good rather greyish thin and broken *Truxillo* leaves was bought in at 2*s.* 6*d.* per lb. at the last drug sales.

COPPER (SULPHATE).—The price for fair quality is 14*l.* 5*s.* on the spot, and 14*l.* 10*s.* in Liverpool.

CREAM OF TARTAR is flat. Best white French crystals may be had at 83*s.* to 83*s.* 6*d.* per cwt. now; powder at 84*s.* 6*d.* per cwt.

CUBEBS.—From Amsterdam we hear that the market is declining through want of demand, though not because of heavy arrivals. It seems that buyers generally are but poorly stocked; but they are afraid to replenish their wants, through the fear of excessive production which they expect to take place in the near future. If the fear should prove unfounded, an improvement in prices may be expected. The recent arrivals amount to 187 bales of cultivated berries, 97 bales of mixed berries, 151 bales of stalks, and 22 bales of dust.

CUMIN-SEED.—*Mogadore* seed is offering at from 22*s.* to 25*s.* per cwt. *Malta* is selling slowly at 42*s.* 6*d.*

ERGOT OF RYE.—Further arrivals of new Spanish ergot have taken place this week. The market here is generally firm and tending higher; 2*s.* 6*d.* per lb. is said to have been paid for fine *Belgian* on the spot. New crop Russian ergot has been offering this week at 2*s.* 3*d.* per lb., c.i.f. terms, but it is not certain that it could now be bought at the price. We hear that a newly-arrived parcel of exceptionally fine *Spanish* ergot is limited at 3*s.* per lb. The Hamburg exporters are said to be selling German ergot to France at the rate of 2*s.* 6½*d.* per lb.

GALLS.—*China* galls have been sold at 53*s.* 6*d.* per cwt. for good quality, which is slightly dearer. Plum-shaped galls are offered for arrival at 52*s.* per cwt., c.i.f. terms.

GAMBIER.—Easier. The spot value is 19*s.* per cwt., with a small stock.

GINGER.—*Jamaica* root was not offered at this week's auctions, and for *Cochin* there was no demand. For fair *African* 34*s.* 6*d.* was paid, while fair *Bengal* realised 30*s.* per cwt.

GLYCERINE.—There has been a fair amount of business lately, and the agents say that they are confident that prices have now touched bottom. Double-distilled German s.g. 1·260 is still to be had at 43*s.* per cwt.

GUM ARABIC.—*Soudan* sorts are still arriving with the result that prices are tending downwards. Fair pale sorts may now be had at 75*s.* per cwt.; very fine picked *Trieste* gum is offering at 18*l.* and pale grains at 8*l.* 15*s.*

GUM KINO.—Bright East Indian kino has sold privately at 110*s.* per cwt.

HONEY.—There has been a good demand for Jamaica honey lately, and some advance has been paid on the last drug-sale prices.

INDIARUBBER is very firm, with buyers of fine Pará on the spot at 2*s.* 9*d.*, but no sellers under 2*s.* 9½*d.* per lb.

INDIGO.—*East Indian* is very firmly held here, and small quantities of *Kurpah* and *Bengal* dye have been made at very high prices. The crop news from Calcutta continues to point to a very considerable shortage in the output of the Behar, Lower Bengal, Benares, and the North-west Provinces.

IPECACUANHA.—A further advance has been paid since the last auctions; *Rio* root which there fetched 7*s.* 8*d.* per lb. has been resold at 8*s.* per lb., and for good stout root 8*s.* 3*d.* per lb. has been given. Good *Cartagena* is said to have been sold at 6*s.* 6*d.* per lb. The *Oil, Paint, and Drug Reporter* announcement that 400 packages were afloat on London (quoted by us last week) is thus explained:—A London shipper had an order for a small lot of ipecacuanha from an American buyer. He cabled out to him that his purchase of 400 lbs. of root was afloat. The American customer (not improbably with a desire to do what he could to depress the market) showed this announcement of "400 afloat" freely to his friends. Hence the story in the *Reporter* that 400 bales were afloat *to* London instead of 400 lbs. *from* there.

MANNA.—Importers are trying to buy back any old parcels of manna they can lay their hands on, and have sold old crop fair flake at 5*s.* 6*d.* per lb. on the spot. New flake is quoted at 5*s.* 5*d.* f.o.b. in 1-lb. tins, and 4*s.* 6*d.* per lb. f.o.b. in bulk.

MUSK.—It is stated that a fair amount of business has been done in fine first pile thin skin Tonquin pods at 73*s.* per oz.

OIL (COD-LIVER).—The parcel of Norwegian oil referred to in our last report consisted of barrels of the usual capacity, *i.e.*, 24 gallons, not 40 gallons.

OILS (ESSENTIAL).—*Star-anise* is again lower, 5*s.* 11*d.* per lb. having been accepted on the spot. It may be had for arrival at 5*s.* 5*d.* per lb. c.i.f. terms. There has been a strong demand for *Eucalyptus* oil, and several importers have raised their prices by 3*d.* or 6*d.* per lb. Good quality Australian is now held for 2*s.* 6*d.* to 2*s.* 9*d.* per lb. American oil of *Peppermint* is lower, and may be had at 12*s.* 6*d.* per lb. on the spot, at which figure sales have been made. Business is also reported at 12*s.* per lb. London terms for September–October shipment, and there are further sellers at the figure. Spanish *Eucalyptus* oil (Globulus) has advanced to 3*s.* per lb. Spanish oil of *pennyroyal* (an article of recent introduction) is selling at 5*s.* 6*d.* per lb.

OIL (OLIVE).—Most holders of olive oil in London have advanced their quotations, and now ask from 32*s.* to 33*s* for *Levantine*, 34*s.* 6*d.* to 35*s.* for *Tunisian*, and 35*s.* to 36*s.* per cwt. for *Spanish* and *Sicilian* oils. A far larger business than here, however, has been done in Liverpool, where prices have risen to 34*s.* 6*d.* for *Smyrna* and *Tunis*, 35*s.* to 36*s.* for *Candia*. 35*s.* to 35*s.* 6*d.* for *Messina*, 36*s* for *Spanish*, and 32*s.* to 33*s.* 4½*d.* per cwt. for *Syrian* oil. The stock of olive oil of all descriptions in the public warehouses on August 31 was:—

—	1892	1891	1890
In London .. packages	1,287	1,213	1,619
In Liverpool .. tuns	420	275	615

Reports from abroad are unanimously unfavourable. They may be epitomised thus:—Italy, unfavourable weather, estimates reduced to one-sixth of an average crop; Gioja crop believed a total failure; Messina, market rising. Greece, crop prospects uncertain, but fair; no old stock. Levant, the new crop in Candia will be small, while in Smyrna and the Grecian Archipelago the outlook is very poor. Tunis Morocco, and Spain: out of the market at present. Eating oils have advanced about 6*d.* to 7*d.* per gallon abroad, and about 3*d.* per gallon in England, 4*s.* 3*d.* to 6*s.* being now the price for common to fine in bulk.

OPIUM.—In *Turkey* opium there has been a fair amount of retail business during the week; up to 8*s.* per lb. has been paid for fine, and 7*s.* for good seconds. In *Persian* opium the advance still continues; 10*s.* 6*d.* per lb. is said to have been paid, and holders do not care to sell any more at that price. The orders have been all for shipment to China, and it is said that over 100 cases have been sent out this week, reducing our estimated stock of Persian opium to about 500 cases. In Persia the price is said to be still 1*s.* per lb. above the London parity. The arrivals in Smyrna from the beginning of the season to September 9 have been 2,471 cases, against 1,952 cases in 1891.

ORRIS.—Prices are still very unsettled. For selected new *Florentine* root 102*s.* per cwt., f.o.b. Leghorn, is asked, but buyers are holding off in anticipation of lower prices as the season proceeds. Good Florentine (not selected) is offering at 90*s.* to 95*s.* per cwt., c.i.f. terms.

PEPPER has been advancing in consequence of reports of a great falling-off in shipments from the East. At the auctions, however, there was not the slightest excitement. Good *white* Singapore sold steadily at 4½*d.* to 5*d.* per lb.; black Singapore was not offered. Some black Aleppey pepper fetched 3¼*d.* per lb. To-day prices for delivery are higher.

PERMANGANATE OF POTASH.—The momentary scarcity is now over, and supplies are obtainable at the rate of 75*s.* for small and 80*s.* for large crystals (by 10 cwt. lots) from the combination agents. These gentlemen are sore with us for having stated that they were at one moment short of immediately available supplies, and have issued a private circular to about thirty of their friends protesting against flights of fancy on the part of a "Quixotic speculator or sanguine editor." They did not send us a circular themselves, but we have to thank a good many of the recipients for passing their copies on to us. As a proof that the agents were actually at one time short of stock, we were shown a memorandum written by them on August 27 in which they thanked a purchaser for his order, but adding they cannot at present execute it but will book it for delivery in about a fortnight from that day. It is also the singular comment upon the statement made to us by the combination agents that there has been no particular run on permanganate, that a secondhand dealer's stock-book shows that in the last six weeks he has sold for immediate delivery over 200 kegs, and this for the greater part at prices above those quoted by the agents.

QUICKSILVER remains very dull. The importers quote 6*l.* 7*s.* 6*d.*; second-hand holders ask 6*l.* 5*s* 6*d.*, but neither of them seem able to put through any business. A consignment of 85 flasks Borneo mercury has arrived per *Pak Ling* from Singapore.

QUININE.—At the close of last week there appeared some anxious sellers for October–December delivery, and business of second-hand German bulk in that position was done at 9⅜*d.* and afterwards at 9¼*d.* per oz., showing a lower value.

SHELLAC.—The delivery market opened with lower prices this week, there being sellers of TN orange at 82*s.* per cwt. for November and December shipment. Subsequently the tone improved a little, and 83*s.* was paid for November TN. Small sales of AC garnet at 74*s.* per cwt., cash terms, were also reported. At auction on Tuesday the large supply of 1,539 cases was offered, of which about one-half sold at a decline of 1*s.* per cwt. on garnet (of which 400 cases were offered) and orange. The following prices were paid: Fine orange, ASSL, ordinary reddish worked, 89*s.*; ditto in flinty block, 80*s.* to 81*s.*; second orange, good curly reddish to bright flat worked, 80*s.* to 81*s.*; good pale curly, partly blocky, unworked, 81*s.* to 82*s.*; bright curly to fair pale flat, 78*s.* to 80*s.*; garnet, unworked, partly cakey AC, 73*s.* to 75*s.*; button, unworked ordinary seconds, 82*s.* per cwt. The market closes firmer, with sales of 500 cases TN for October delivery at 83*s.* per cwt. To-day there are no sellers for TN for forward delivery below 84*s.*, while there are buyers at 83*s.* 6*d.*

SODA CRYSTALS.—The London makers quote 67*s.* 6*d.*, while for other makes the price here is 70*s.* landed terms, or 67*s.* 6*d.* ex ship. On the Tyne 60*s.* f.o.b. is wanted.

STICKLAC.—Good *Siam* lac, fairly free from wood, may be had at 70*s.* per cwt. At auction on Tuesday 132 cases fair Siam were bought in at 78*s.* per cwt. There have been rather heavy arrivals.

SULPHUR.—Steady at 6*l.* 15*s.* for roll, and 7*l.* 15*s.* for flowers, landed terms.

TURMERIC.—*Bengal* root of fair quantity has been sold privately at 20*s.* per cwt. *Madras* is firm, but with little business. Good bright *China* finger has sold privately at 17*s.* to 18*s.* per cwt.

VALERIAN.—Sales of good stout new Belgian root are reported at 32*s.* to 32*s.* 6*d.* per cwt. for prompt shipment. The demand is good.

WAX (JAPAN).—Again lower, with sales of good pale squares at 36*s.* per cwt. on the spot.

THE LIVERPOOL MARKET.

BALSAM (COPAIBA).—Notwithstanding arrivals of *Maranham* holders are firm, and 1*s.* 9½*d.* to 1*s.* 10*d.* is asked for bright.

CHLORATE OF POTASH.—The United Alkali Company's price is now 8*d.*, but some second-hand holders ask 7½*d.*

COCA-LEAVES.—The 22 bales greenish brown *Huanaco* recently offered at auction and bought in at 1*s.* 3*d.* per lb. They were afterwards sold at 10*d.*

GINGER.—*African* is in a very firm position, and 31*s.* to 34*s.* per cwt. is asked for really prime sound root.

GUINEA GRAINS.—The position of these has improved, and now 22*s.* 6*d.* is asked for clean bright seeds.

GUM (ACACIA).—Holders of genuine Soudan sorts show more disposition to meet buyers' views, and slightly lower prices have been paid for some parcels. Fine sorts, 75*s.* to 80*s.*; brown to yellowish, 65*s.* to 70*s.* asked.

THE SMYRNA OPIUM MARKET.

(*Telegram from our Correspondent.*)

SMYRNA, Wednesday night.

THE Dutch Government are buying new Karahissar opium at the parity of 7*s.* per lb., f.o.b., here; thus far 80 cases of this kind have been secured by this buyer. Other operators have bought 150 cases of manufacturing kinds at from 6*s.* 4*d.* to 6*s.* 7*d.* per lb., f.o.b., according to quality. Market active but prices 2*d.* easier as compared with the previous sales of Karahissar.

Memoranda for Correspondents.

Always send your proper name and address: we do not publish them unless you wish: if you do not, please use a distinctive nom-de-plume.

Write on one side of the paper only; and devote a separate piece of paper to each query if you ask more than one, or if you are writing about other matters at the same time.

If you send us newspapers, please mark what you wish us to read.

Ask us anything of pharmaceutical interest: we shall do our best to reply.

Before writing for formulæ consult the last volume, if you have it.

Letters, queries, &c., will be attended to in the order received.

The Irish Pharmaceutical Council Election.

SIR,—Kindly allow me to correct a slight error in the official report of the last Council meeting of the Pharmaceutical Society of Ireland. Speaking of the circular sent out by Messrs. H. Moore & Co. I did not mention my father's name at all, and I referred to travellers of wholesale houses generally, and used Messrs. Moore's name in reference to the circular only in reply to Mr. Boyd's question.

I am not opposed to having retail [we think Mr. Wells means "wholesale"] druggists on the Council, nor did I refer to such in my circular (which seems to give Mr. Gibson so much trouble), but to "those whose trade interests are quite opposed to the best interests of pharmacy."

Now, Sir, I think it would be well if the associate druggists would read the Council reports and judge for themselves who are their best friends, and not let sand be thrown in their eyes by those who are seeking to further their own interests at the expense of the *bonâ-fide* druggists. Since the passing of the Amendment Act the Law Committee (who are all pharmaceutical chemists) have done much to protect the registered druggist; they have sent out some hundreds of cautionary notices to grocers, ironmongers, and others who were selling poisons, causing them to give up doing so. What have the so-called representatives of the druggists on the Council done for them? They certainly have been successful in getting many placed on the Register who never had any claim to the title of druggist, and in this way have done much harm to the *bonâ-fide* druggist. Some of these wholesale men have recently been selling poisons to persons who are not on the Register. These persons, in some instances, when cautioned, have stated that they did not know the law. Let all the wholesale firms do what one firm in Dublin is doing—viz., not sell poisons to anyone whose name is not on the Register without first letting them know what the law is. By this means much of the illegal trade which is being carried on now would cease.

Let us have retail druggists on the Council—men who will carry out the law fairly to both parties, and who will not countenance dispensing by druggists; then, and only then, may we expect harmony on the Council.

I am, Sir, yours faithfully,

Dublin, Sept. 20. W. F. WELLS, Jun.

SIR,—I see it announced in your journal that upwards of sixty associate druggists have been elected at last meeting of Council, the object being, as everyone knows, to turn out the six pharmaceutical chemists who retire this year and are eligible for re-election.

I have always taken up an impartial position between the pharmaceutical chemists and the druggists, as I believe their interests are identical, and that only by the combined and united action of both sections can those interests be effectually safeguarded. Therefore I claim permission to address my fellow-associates on the present crisis without prejudice to either section. I would like to ask of them a plain but important question—viz, On what grounds do they object to those six pharmaceutical chemists?

I have on different occasions been told by associate and registered druggists that certain members of Council are opposed to the very existence of the druggist section, and that, should the associates ever have the power to do so those obnoxious councillors would be removed. After discussing the *pros* and *cons* of the question very thoroughly, my druggist friends have admitted their utter inability to sustain any charge of unfairness against those particular councillors, and have also admitted that their prejudices were engendered by the travellers of wholesale firms, who had a particular interest in the creation of registered druggists throughout the country.

As the bulk of the associates have very limited means of obtaining information on the subject—inasmuch as the proceedings of the Council committees (where much light on the subject might be gained) are not published—I think it is only right that this aspect of the question should be presented to them.

Some members of Council, connected with the wholesale drug trade, have been over-anxious to register as druggists traders throughout the country whose claims for registration were utterly groundless; and I would ask my druggist friends, Is it not a fact, well known to many of them personally, that men were registered who are in every possible respect totally unfit to be entrusted with the sale of poisons to the public? When certain councillors opposed this reckless registration of untrustworthy men, they brought upon themselves the bitterest personal feeling of their colleagues—who were bent on filling the country with those men—and that feeling was very freely conveyed through the channels already mentioned to the registered druggists and there made to appear as the dislike and opposition of those particular chemist-councillors towards the druggists as a body.

This personal feeling is the motor-power of the present opposition to the outgoing chemist-councillors, and, before playing into the hands of their supposed friends, I would ask the associate druggists, in all earnestness, in what respect have those six councillors broken faith with them? Have they not opposed the unscrupulous creation of hucksters throughout the country while their supposed friends have supported it? And was not the judicious curtailment of the sale of poisons and the drug-trade generally the only safeguard for the public, the registered druggists, and the chemists? Any associate who will give these questions his careful consideration must admit that, not only is he unable to find fault with these outgoing councillors, but that he is in honour bound to vote for their return to office.

The associate druggist, as a rule, has some large and flourishing business which requires his constant attention, and, in fact, the drug department is very often the less important of the two, consequently he cannot spare time to make himself up in the minutiæ of Council work, much less attend the Council meetings as a member; it is here his greatest difficulty lies. Should he reject the chemist as his representative on Council, he must seek for councillors from amongst those gentlemen connected with the wholesale trade having more time to spare than himself, and who in the past have shown themselves to be actuated by personal considerations, and utterly oblivious of his interests so long as they could bring "grist to their own mill." For the present the associate druggists' interests are safer in the hands of those chemists who have already shown themselves capable of discharging the high responsibility of councillors without prejudice to any section.

I have always upheld the principle of representation on Council for the registered druggist, as provided by the recent Pharmacy Act; but until that representation can be placed in the hands of men above suspicion, men who can be depended on to do what is right in the face of every personal consideration, and men chosen from the ranks of the associate druggists entirely and solely engaged in the retail trade of the country, and independent of the influence of wholesale dealers; until then, I maintain, it is the duty of every associate to uphold the present balance of power and vote for those outgoing chemist-councillors who in the past have fearlessly protected the interests of both sections of our society.

In asking the associate druggists of the country to give these few facts their earnest attention before filling up their voting-papers for the pending election, I believe I am discharging a duty which devolves upon me as an independent member of the Council, and I am convinced that the intel-

ligence and foresight of my fellow associates will at once assert themselves, and with no uncertain sound proclaim in favour of those Councillors who have faithfully and honestly discharged their duty.

I remain, Sir, your obedient servant,

Monaghan, M. R. WHITLA, M.C.P.S.I.
September 17.

The Irish Examiner in Pharmacy.

SIR,—I beg to remind Mr. Ferrall that the question which I wish to have answered is—

"Did he, as Registrar of the Pharmaceutical Society of Ireland, accept an application for the post of examiner from Mr. T. W. Robinson, whilst that gentleman was still Vice-President of the Society, and therefore ineligible?"

Mr. Ferrall is strangely in error when he states that the election of Surgeon John Evans to the same position, five years ago, took place under precisely similar circumstances. A special meeting of the Council was held on July 22, 1887, for the express purpose of accepting the resignation of Dr. Evans. This left him free to compete for the examinership, to which he was elected at the following meeting in August.

I fear that not even the sanction of the Lord Lieutenant and the Privy Council will be sufficient to relieve Mr. Robinson's friends of their embarrassment. If Mr. Ferrall looks up his file of the *Dublin Gazette*, he will find that the approval of the Lord Lieutenant and Privy Council was given to the election of an examiner by the Society "pursuant to the said [Pharmacy] Act." Now, if the election was not held in pursuance of the regulations laid down by the Act, or adopted by the Society in conformity with the Act, I humbly submit that the approval is null, void, and of no avail. As the Castle people are, I believe, somewhat irritated at the tone of Mr. Hayes' recent letter, they might not be sorry to give the Society some trouble over the matter, if it were brought under their notice.

As regards Mr. Ferrall's suggestion that the appointment of Mr. Robinson has met with the approval of members generally, I have not noticed any enthusiasm amongst them with respect to it; but as I intend bringing the matter before the general meeting, both members and associates will have an opportunity for expressing their views on the appointment.

Yours sincerely,

19 North-East Street, JAMES C. MCWALTER.
Dublin, Sept. 19.

Cholera-mixtures.

SIR,—It may interest Mr. Pickard, and possibly some others among your readers, to learn that from 1864 to 1867, pulv. aromat. B.P. meant simply aromatic confection without the chalk; in other words, a mixture of cinnamon, nutmeg, saffron, cloves, cardamoms, and sugar.

By the addition of one-third its weight of chalk it became pulvis cretæ aromaticus, or aromatic confection.

To the present generation this is perhaps a matter of merely antiquarian interest; but there are future possibilities in the recommendations of the Royal College of Physicians for the relief of diarrhœa which you publish this week.

A formula for "mist. cretæ aromat." exists in the Pharmacopœia of the London Ophthalmic Hospital, but, as far as I know, nowhere else.

At a time when our rulers aim at making the British Pharmacopœia the standard even in the mere buying and selling of drugs, one feels that a strict adherence to it in this collective prescribing by the Royal College of Physicians would have been at least seemly.

The direction of drop doses of three of the ingredients in the first mixture, in spite of all that has been said and written about the variability of this mode of measurement, is disappointingly retrograde. But, like the Irishman's progress of one step forward and two backward, the "drops" are atoned for by the startling novelty of the last but one of the ingredients.

Unless I am woefully out in my reckoning, this will be the first introduction of cerii et bismuthi salicylas to the notice of a good many dispensers.

And to find such a novelty in the public pronouncement of this venerable and hitherto conservative College impels the question, Is Saul, too, among the prophets?

Yours faithfully,

Market Square, Dover, J. F. BROWN.
September 16.

SIR,—I see that you noticed, and rather praised, the emanation from the President of the Royal College of Physicians giving directions for the treatment of cholera. In that part of the circular which you did not print there are several suggestions which are more than frail. Among others, the patient is directed to take two teaspoonsfuls of castor oil in capsules; that means 8 to 10 capsules to be swallowed—a most repugnant operation to almost everyone—and, if swallowed, the stomach will have to try and digest so many cabs of glue (the empty capsules), or it is directed that the oil be taken in warm milk. The vendors of castor oil pride themselves (or should do so) on selling "cold-drawn castor oil," and the M.D.'s say, "Put it into *hot* milk," so as to rancify it and give the patient the gripes. A prescription composed of chalk, &c., is directed, with instructions that if it disagrees you are then to take a mixture of acid. sulph., causing a ginger-beer operation in the poor stomach. But to pass over the many other mistaken directions, we come to the damning clause, the last but one, which directs in plain English a solution of corrosive sublimate—½ oz. to 3 gallons of water—as a preferable disinfectant to any other. This is to be kept in stone jars or wooden tubs. Fancy an ordinary house having a tub with 3 gallons of this highly poisonous fluid open to anybody! It would be void of any smell, be slightly acidulated, and might and probably would be tasted, if not sipped, by those knowing no better. And the wooden tub soaked with a solution of corrosive sublimate would be a most dangerous household chattel. I have heard this day of the solution having been made up to the formula given by the President of the Royal College of Physicians.

I am, Sir, yours obediently,

EDWIN HAWKER.

59 Blessington Road, Blackheath, S.E.,
September 21.

SIR,—The question of the use of conf. aromat when pulv. aromat. is ordered in the Board of Health cholera-mixture as given in Squire's "Companion," was raised by me some few years ago, and the same antiquated name is still used—for what reason I cannot tell. The Pharmacopœia only recognises one pulv. aromat.—viz. pulv. cinnam. co. I have noted against pulv. cretæ aromaticus (conf. aromat.), as your reply to my former query, "The original pulv. aromat. sine creta." It seems to me very evident that in using conf. aromat. B.P. for pulv. aromat. in this recipe we are not even loyal to our ancestors. I cannot find anywhere else, in Squire, or in any other book, conf. aromat. ordered as pulv. aromat., and it is incomprehensible why this should be the exception. If we are to aim at precise nomenclature, then for our own integrity let pulv. aromat. be synonymous for pulv. cinnam. co., and that only, and conf. aromat. for pulv. cretæ aromat.

Milton, Sittingbourne. Yours truly,

ARTHUR STOOKE.

Non-Cutting Arrangements.

SIR,—I have read with some interest the complaint of Mr. W. E. Geddes respecting the action of the trade with regard to the "Curative Compound." I would ask him this question, "What is he doing to create a demand for the article?" He may rest assured that chemists will not care to stock it until there is some demand for it on the part of the public. I ordered ½ doz. of each size some months since and have not been asked for a single bottle. The reason to my mind is evident: it has not been thoroughly advertised, as the trade were led to expect it would have been. I will venture to say that not one person in a hundred who are perfectly familiar with St. Jacobs oil, knows anything about the "Compound." Let Mr. G. pursue the same policy with this as with the St. Jacobs oil, and the demand will be created. Once this is done the trade will be compelled to stock it, and will not be able to object to the "agreement."

That this can he done, is proved hy the experience of Messrs. Blondeau et Cie. and of Messrs. Elliman, whose articles are stocked hy nearly every chemist in the kingdom. Let Mr. G. take a lesson from the above firms.

Yours trnly,
COUNTRY CHEMIST. (118/25.)

The Holborn Drug-contract.

SIR,—In looking over this week's nnmber of THE CHEMIST AND DRUGGIST, on page 421 under the heading of "Drug-contracts," we notice a paragraph in the report of the late tenders to the Holborn Union which is calcnlated to convey an erroneous impression as to what has actually taken place, so far as we have been concerned. We have taken the contract for the supply of drngs to this Union annnally for the last four years, and we are able to assert that we have not had a single complaint as to the quality of the drngs supplied by ns dnring that period. We unfortunately have not the pleasure of knowing a single member of the Board in question, and in this particular are not so fortunate as some of our opponents. In addition to this, the list submitted for discount by the Union is of a somewhat antiquated character, and we append the prices of some half-dozen of the leading articles contained in the schedule, by which it will he seen that it is "quite possible to supply the articles in question of the purest character" without losing by the transaction—viz., camphor, 2*s.* 6*d.* per lb.; cocain. mnr., 32*s.* per oz.; cubeb powder, 6*s.* per lb.; extract belladona, 10*s.* per lb.; morphia, 5*s.* 6*d.* per oz.; qninine, 2*s.* per oz.; liqnid cascara, 3*s.* 4*d.* per lb.

We remain, Sir, yours obediently,
4 Jewry Street, London, BAISS BROS. & CO.
Sept. 17.

Defence of German Assistants.

SIR,—I see in your jonrnal that one has a bad opinion of the German assistants. It may be possible that the facts of the letter of the continental pharmacist are often true; but he has been too severe. I will explain what German assistants usually do.

The German assistants are not salesmen, and they often do not understand to talk with the people, because in Germany they never have time to talk very much when they sell anything.

A German chemist shop is quite another thing than an English or French shop. They are mnch bigger. In Germany we have in a town as large as Geneva only eight shops, and here we have fifty-two. Therefore, we always very much work, and, especially, very many prescriptions to make up. Usually are in a shop two or three assistants, and one has 100–120 or 150–200 prescriptions every day. We cannot have a dispenser and a salesman in a shop, because the salesman would not have enough work. Very often are waiting six to ten people in the shop, and when then a cnstomer would come buy anything, then he mnst ofteu wait, and afterwards we give it to him very quickly, only saying the price, and do not think of going to the door, or asking him if he wants anything else.

One can very often compare the German chemists' assistants with the employés of the Post Office. We still find in the old shops that the pharmacy is separated from the waiting-room by a wooden partition, with a sliding window in the middle, just like a ticket-office in the railway station; when there comes a customer, he knocks on the window, because it is not always open, especially in the winter, because the waiting-room is very cold, and in the shop is warm, and then they give the prescription; the chemist says when it is ready, and shuts the window.

A German apotheke is not only usnally much bigger than an English or French shop, it is also quite another thing, because they are not druggist stores but only chemist shops. The German apotheker have nearly all enongh to do with making up the prescriptions, and they have not necessary to sell snch things, like the chemists of other nations, like feeding-bottles and sanitary towels, and water-closet paper; also they are not obliged to wrap up the medicaments so nicely, especially because they have not time; they wrap them very quickly in a tissue-paper, and that is snfficient for a medicament in Germany, for a patient will never he angry if his medicine comes only wrapped in ordinary paper. Another thing is it if one goes in a parfumery to buy some parfumes; then it is necessary that the parfumer makes a nice packet with strings and sealing-wax. If a German assistant will give another position to the bottles or the pots, then he makes because he has the custom to have the bottles and pots in an especial order. How severe the order in the German shops is can one see if one reads the orders of the Government inspectors. Every bottle must have the name burned in, and the narcotic remedies must be written in red, and kept in an especial room, and the poisons in black bottles with white letters. "Hydrargyra, alcoloida, arsenicalia," must be in a cupboard with donhle-locked doors. Phosphorus must be under water in a bottle, and this bottle under sand in an iron hox, placed in a recess in the cellar with double-locked iron doors, &c.

That the German assistant knows better Latin than the other is natural, becanse his education is more difficult than of another one. He mnst be three years apprentice, then he has to make a difficult examen, then three years assistant, and then he must study two years in an university to make his apotheker examen.

If a German assistant goes to work in another country, and if he is not a good salesman, he will take very much care to become one, if he is well treated; but very often the proprietor is not kind to him, and langhs at his scrnples and his exactitude, and then of course he is not pleased and things go on badly.

It is a fact that a German assistant can work in every conntry very soon; but it would be very difficult for a foreign chemist to work in Germany. I hope that I have not made too many mistakes in English, and since you English say "Fair play is a jewel," that you will read my letter with interest.

Yonrs very truly,
The Anglo-American Pharmacy, MAX WAGNER.
13 Rue des Allemands, Geneva,
September 13.

[We are obliged to Mr. Wagner for his interesting letter. In printing it we retain the few quaintnesses of expression, simply because we think the English of the letter is so excellent that it is quite unnecessary to touch it up, and only fair to Mr. Waguer to give his *ipsissima vertu*]

Seats for Assistants.

SIR,—Much correspondence has been published in the newspapers as to the desirability of allowing seats for assistants in shops, and I should like to know if any of your readers have introduced such an arrangement, and whether they find any attempt at malingering or want of courtesy on the part of assistants owing to the freqnency of having to get up to attend to cnstomers? We are all cognisant of the fact that there is a great amount of work in the way of pntting up powders, pills, &c., which could be done quite well if the assistant was seated at a proper counter; but there are some of such an easy or indoleut nature that if once they were allowed to sit, anyone else more willing—be it either errand-boy or porter—might take the counter-work, and, if neither was at hand, he wonld move so slowly as to gain an nnenviable notoriety for the shop.

Yours,
REQUIES. (112/44.)

Medical Prescriptions.

SIR,—May I be allowed to express my views on the subject, looked at from the pharmacist's standpoint, without any special reference to the legal aspect of the qnestion or to the Irish Pharmacy Act in particular?

I should regard the order for Henry's magnesia and Hunyadi-water taken to the Dublin chemist's shop as a prescription, because it is accompanied with precise directions for use, and the name of the patient and the date of the prescription, as well as the initials of the prescriber, are given, all of which are very different to an order for a bottle of whisky.

When a medical man gives instructions for diet and stimulants it is usually on a separate paper, and the patient does not, as a rule, send this for pernsal to the purveyors of eatables and drinkables, to be supplied with the necessary

articles. Let us return to the prescription. Supposing the patient came back to the doctor in a fortnight and asked for a slight modification to be made in the prescription, and the doctor altered it accordingly, by adding to the magnesia ½ oz sodii bicarb. and ʒj. p. zingib., or he might direct so much magnes. sulph. to be taken with each dose of Hunyadi-water.

In this case you would certainly have compounding, in addition to the copying of the prescription and labelling and dispensing the medicine which was done in the first instance. As to the query of making a proprietary article from a medical prescription, it takes it out of the category of prescriptions altogether, and classifies it as a recipe; and so long as recipes do not contain any scheduled poison they can in England be compounded by unqualified persons and sold as proprietary medicines.

My idea is that when a prescription is handed about from one person to another it becomes a recipe, and, with regard to copies of prescriptions, I always decline to give them when they contain strong poisons, unless the patient assures me that the original is lost and that the copy is intended solely for his or her personal use; and with regard to repetitions and copies generally medical men and pharmacists cannot be too precise. Yours faithfully,

PH.CH. (113/5.)

SIR,—In your leader on the "Compounding of Medical Prescriptions," some curious points are raised, and doubts not allayed. What would be the position of the tradesman in Ireland who supplied "beef-steak and onions," ordered by a medical man in writing, and signed by him, with directions as to taking the same? After the specimen medical prescription given in your article, the above is equally rational, and its compounder equally liable.

Yours, &c.,

NEMO. (159/92.)

DISPENSING NOTES.

The opinions of practical readers are invited on subjects discussed under this heading.

Should it be Colourless?

SIR,—The following prescription was presented at our establishment to be dispensed:—

Calcii chloridi	℥ij.
Hydrogen peroxid. (10 vols.)	℥j.
Liq. atropiæ sulph.	♏viij.
Syr. ferri phosph. co.	℥ij.
Aq. chlorof. ad	℥vj.

M. Ft. mist.

What ought the colour of the mixture to be? Will the hydrogen peroxid. bleach the syr. ferri phosph. co.? We sent it out a lake colour, but it had previously been dispensed and was colourless. We have since tried it with two samples (different wholesale houses) of syr. ferri phosph. co. and fresh hydrogen peroxid., and find it does not decolorise.

Yours truly,

H. W. B. (114/68.)

Zinc-chloride Injection.

SIR,—In dispensing the above I always send it out unfiltered, and without the addition of any acid.

Yours faithfully,

J. D. A. (111/56.)

SIR,—Regarding the zinc-chloride lotion, I have dispensed many a quart of it, and have always rubbed up the zinc chloride with the water, and sent out with a "shake." I have never heard any objection to that method. I should consider the addition of acid as quite unjustifiable.

Yours, &c.,

H. R. (114/24.)

SIR,—I have been accustomed to dispense large quantities of the above salt, but only in one case was I authorised to use hydrochloric acid as a solvent for the precipitate. In this prescription it was ordered to be used with a nasal spray. I remain, Sir, yours truly,

London, September 14. GEORGE ROE.

A Spanish Prescription.

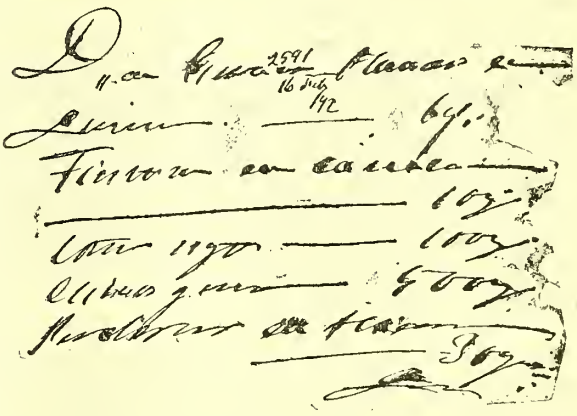
SIR,—The prescription in your number of July 2, under the title of "Who can read it?" is:—

	Grammes
Extracto blando de quina	6
Tintura canela	10
Coñæ viejo..	100
Mucilago de goma	500
Perclorino de hierro	30

	Grammes
Extract of cinchona	6
Tincture of cinnamon	10
Old brandy	100
Mucilage of acacia	500
Perchloride of iron	30

Montevideo, August 19. E. E. C.

As this prescription proved a puzzle to British dispensers, we reprint our facsimile of it:—



112/33. *A Student.*—You can only dispense the mixture clear by filtering out the deposited quinine, which, of course, would be wrong.

LEGAL QUERIES.

Consult Alpe's "Handy-book of Medicine-stamp Duty" in regard to patent medicine questions.

General information regarding the laws affecting chemists and druggists is printed in THE CHEMISTS' AND DRUGGISTS' DIARY, 1892, *pp.* 161–5.

For stamp duties, licences, Customs regulations, &c., see the DIARY, *pp.* 161–9.

113/13. *Acetum.*—There can be no legal objection to the announcement on your gate—"Veterinary medicines of every description."

113/35. *Perplexed.*—In an action under section 15 of the Pharmacy Act, the Judge has no power (in England) to reduce the penalty if the case is proved. The words you quote are from section 17.

112/32. *Vinegar.*—We cannot answer your question more definitely. As we do not know of a case in point, we can only give you inferences.

112/39. *J. E.*—Any seven of you can form yourselves into a limited liability company for the purpose you named.

Whether yon have the right to assume the name of the old firm or not depends on circumstances, of which we know nothing. It may be a valuable title to which someone else has a claim. You can get particulars about registration at Somerset Honse; bnt you had better employ a solicitor to draw up the articles of association. The registered company may keep open shop as chemists, but sales of poison must be conducted by actually qualified persons.

114/13. *Elector.*—If yon can satisfy the Court that you never ordered the goods, and never had them, you will, of course, not have to pay for them.

114/22. *Ichthyol.*—No one can be admitted to the modified examination who did not register his claim before December 31, 1869.

114/60. *Z.*—We shonld think the proprietor of a bnsiness who engages a *locum-tenens* is justified in reqniring the latter to put up stock during his spare time in business honrs.

117/20. *Menthol.*—An agreement with an assistant that he is not to be allowed to commence business witbin a certain (reasonable) area, and within a certain (reasonable) period of time, is enforceable.

117/16. *Doubtful* asks if there is any clause in the Pharmacy Act which enables medical practitioners to entrnst unqualified men with the dispensing of poisons in their own surgeries, or gives them any indulgence in that direction which chemists do not enjoy. [Nothing contained in the first fifteen sections of the Pharmacy Act, 1868, is to affect any duly qnalified medical practitioner. But it appears from the Glasgow cases that if he should keep an open shop an unqualified assistant who should sell a poison therein is himself liable for a penalty. He or a chemist may (at any rate, so far as the Pharmacy Act is concerned) employ unqualified assistants to compound poisons. It is the selling which the Pharmacy Act forbids.]

117/65. *W. C.* asks whether the fact that the Government grants a licence to sell stamped medicines of any kind to an unqualified person could not be pleaded in defence of an action brought by the Pharmaceutical Society against such a person for selling a stamped medicine containing poison? [It could be pleaded certainly; but we should think it would be of no avail. A licence to sell stamped medicines merely absolves the seller from the penalty incnrred by selling without a licence. It is purely a fiscal regulation. The holder of a medicine-licence is subject to the provisions of the statute law like every other person; and to urge as a defence that the medicine-licence is a Government licence, which absolves the holder from observing the regulations for the sale of poisons, would probably operate as an aggravation of the temper of the Court.]

115/66. *A. J.*—The seller, for the purposes of labelling, &c., is the person or firm on whose behalf the sale is made.

118/37. *H S V.*—The bill would make the preparation liable to medicine-stamp dnty.

118/3. *Perplexed.*—We cannot undertake to define exactly what is the personal supervision for sale of poison necessary to ensure the safety from fine as unqualified apprentice or assistant. Mr. Jnstice Hawkins carefully left that question vague. If yon (qualified) take the order, and see the article put up and labelled, we do not think it would be criminal on the part of your apprentice to hand the parcel to a messenger and take the money for it. But that is only an unauthorised opinion. The prosecution must prove their case, certainly, but it is for yon to prove your defence. The purchaser of the poison is not bound to say that he bought it for the purposes of prosecution.

117/22. *Comedy.*—You must take a separate licence for each "set of premises." This applies to every Excise licence except those granted to appraisers, auctioneers and hawkers.

120/9. *C D.*—You can sell or export any patent medicine in Ireland without stamping it.

MISCELLANEOUS INQUIRIES.

Inquirers will please read the "Memoranda for Correspondents."

List of "Books for Chemists" is given in THE CHEMISTS' AND DRUGGISTS' DIARY, *p.* 317.

For all particulars regarding Educational and Examinational matters refer to our issue of September 19, 1891.

Replies to queries are inserted according to the space open in any week, and insertion on any specific date cannot be guaranteed.

Back numbers of our weekly issue, containing formulæ, &c., occasionally referred to in answers, can be obtained from the Publisher at 4d. each.

108/53. *E. V. Z.*—If the deer's heads have already been Attacked by Moths, the best plan is to saturate them with a spray of benzine. This they should get twice or three times a year, and have a piece of naphthalene inserted in each head to keep the moths away. The benzine kills the eggs.

108/73. *Smelling-bottle.*—An Iodised Oil, snch as you ask for, is covered by a patent, of which an abstract appeared in THE CHEMIST AND DRUGGIST, December 29, 1888, page 895. It starts with oil, but comes out a solntion of saponified oil and alkaline iodide. Try the following:—

Soft soap	℥j.
Glycerine	℥ij.
Ammonium iodide	ʒj.
Proof spirit to	℥ij.

Mix, and filter if necessary.

108/12. *Subscriber.*—Yon will find the directions for fixing gold-paper labels on drawers and bottles in THE CHEMIST AND DRUGGIST, May 30, 1891, page 780. The paragraph is too long for repetition. The isinglass is necessary.

109/71. *Semper Idem.*—The particulars abont naval dispenserships are given in this issue.

109/28. *A. J. N.*—(1) Four formulæ for teething-powders in last volume. The simplest and safest is in May 28, 1892, page 787. (2) Sachet-powder.—February 27, 1892, page 323, and many others during the past three years. (3) Aniseed Cordial:—

Oil of anise	ʒij.
Rectified spirit	Ov.
Simple syrup	Oxj.

Dissolve the oil in the spirit, and add to the syrup. If cloudy, add ½ oz. of washed fuller's earth; shake well, and after an hour filter.

109/5. *Nunquam.*—Black printing-ink is made with linseed oil, tnrpentine, and lampblack. There is an art in making it, but competition keeps down the price, and it can be bonght much cheaper than you can make it. Yon mnst please specify the colours yon reqnire. White Photographic Varnish:—

Elemi	℥ss.
Mastic	℥j.
Ether to	℥vj.

Macerate until dissolved, and filter. With the filtrate mix a sufficiency of finely-levigated zinc-white.

111/1. *Idle Subscriber.*—(1) See our Cholera Notes of a fortnight ago. (2) No one just beginning to try will succeed in prodncing a Brunswick Black of superior qnality. There is an art in varnish-making which none but adepts

know. The ingredients of the "black" are black pitch and hard gas-tar pitch; 3 parts of each of these and 8 parts of linseed oil are boiled together with 1 part each of litharge and red lead for some hours, and when the proper "point" is reached the product is thinned down with turpentine.

111/23. *W. F.*—Confectioners do not use colourless chlorodyne in making Chlorodyne Lozenges. It suffices to add proper proportions of the more important ingredients of chlorodyne, such as morphine, chloroform, and oil of peppermint.

112/68. *Mucilage* (Ontario).—(1) Cachous are silvered by means of silver-leaf. You may use a covered earthenware pot as a coater. For every two dozen of the cachous use a leaf of silver. The surface of the cachous must be just sticky—dull, not shining with moisture. (2) A strong wheaten-flour paste, with 20 grains of alum to each ounce of flour, is best for sticking samples of cloth on paper.

112/67. *Hepar Subscriber.*—A "Compound antiseptic Bilious and Liver Pill?" Yes; how would this do?—

Res. podophylli	gr. ¼
Pulv. ipecac. co.	gr. j.
Ext. nucis vom.	gr. ¼
Pil. rhei co.	gr. j.

Make a pill.

An adult may take one or two of these.

112/66. *X. Y. Z.*—Saline.—See our issue of May 21, 1892, page 754.

112/2. *Frank.*—Your "confidence and faith" in us does not allow you to go so far as to tell us what is the matter with you—why you want a tonic and what you mean by getting "the blood into good order." Candidly, are your habits what they should be? Do you feed properly and take a cold sponge down every morning? Young men should not need iron: open-air exercise, regular habits, and an active liver are the best hæmatinics. If you need medicine take a podophyllin pill now and then, and a few days of the following mixture when you are very seedy:—

Acid. nitro-mur. dil.	ʒij.
Liquor. strychninæ	ʒj.
Glycerini	℥ss.
Aquæ ad	℥viij.

M.

A tablespoonful in a glassful of water before food.

112/50. *Nemo.*—The salt is metasulphite [or anhydrosulphite] of potash, and is readily obtainable in the market.

113/50. *J. M.*—There is no chemical test for sewer-gas. The nose will detect anything that chemicals would. When anyone is suspicious of drains being wrong the local sanitary authorities should be asked to try them by the smoke-test.

112/17. *Cupri Sulph.*—Curling-fluid for the Hair.—See THE CHEMIST AND DRUGGIST, April 25, 1891, page 606, and August 20 (current volume), page 286.

112/16. *T. H. North.*—White Rose Carbolic Tooth-powder.—See the formula in THE CHEMIST AND DRUGGIST, April 18, 1891, page 575. Omit the camphor and the carmine.

112/19. *Peacock.*—Squire's "Methods and Formulæ" (Churchill, 3*s.* 6*d.*) is a book which will suit you for micro-mounting.

113/4. *G. E.*—If you wish to make Coca-wine with sherry, you must first detannate the sherry by keeping a few shreds of gelatine or isinglass in it for ten days or so. Then use 1 oz. of leaves to the pint; allow to macerate for a week, shaking now and then; strain, and set aside for a month before bottling. See also THE CHEMIST AND DRUGGIST, July 26, 1890, page 136.

113/34. *Midlands.*—See Brannt's "Fats and Oils" (Sampson Low)—a somewhat expensive book—but information on lubricants is also given in Spons' "Encyclopædia." (See DIARY, 1892, page 323.)

113/32. *Lichen.*—Borax and Camphor for Hair-wash.—The proportions for the penny packets are ½ oz. of powdered camphor to 1 lb. of borax, with 10 drops or so of oil of rosemary. Mix well. Three drachms is sufficient for a packet. This quantity dissolves at once in a pint of water, leaving no undissolved camphor.

113/9. *Salix.*—We do not know the cold process for Preserving Fruit which you write about. A saturated aqueous solution of salicylic acid would, at least, be necessary. Probably acetic acid is used in the other instance. For bottling plums, damsons, and similar fruits, all that is necessary is to clean and dry them thoroughly, and pack in air-tight jars in an atmosphere of chloroform. The jars should be sterilised by heating in an oven, then put a layer of cotton-wool at the bottom, on this drop a few minims of chloroform, then place in the fruit, cover with cotton-wool, dropping a little more chloroform upon it, and make airtight.

113/18. *W. Waters.*—A solution of soda-ash (1 lb. to 2 gallons of water) is used for cleaning printers' type. Turpentine is used for fine engravings.

113/19. *Menthol.*—We are unable to give you practical advice about making a water-resisting Papier Maché ball. How would it do to saturate with collodion before compressing? When dry this would require a good coating or varnish.

113/21. *A. H. C.*—You will find a number of Formulæ for Chapped Hands in the last four volumes—viz., December 27, 1890, page 876; January 31, 1891, page 156; February 27, 1892, page 299; and April 16, 1892, page 568. We cannot possibly repeat these formulæ or undertake to copy them, but the numbers will be sent by post if the publisher can supply them, and you order them.

113/72. *Jean.*—The Self-inking Pad for rubber stamps is saturated with a glycerine solution of an aniline colour.

116/5. *Chemicus.*—The medicines named in the 1773 advertisement which you quote are all, we think, comprised in the old list (1748), quoted in Alpe's "Handy Book."

113/62. *F. P. W.*—See reply to "Ferrum" on September 10. For brass use nitric acid.

113/65. *Harry.*—Roup Pills for fowls. A good formula is quoted in THE CHEMIST AND DRUGGIST, January 24, 1891, p. 130.

114/9. *Wisbecian.*—There is no immediate prospect of a New British Pharmacopœia. January 1, 1901, is the date that Prof. Attfield has in his eye, with an addendum to the present one probably in 1895.

114/15. *Aurantii.*—We have quoted the formula for Elixir Aurantii U.S.P. so often that we must refer you to the last occasion, August 15, 1891, p. 262.

114/30. *R. S. H.*—Liquid Starch Glaze, THE CHEMIST AND DRUGGIST, October 10, 1891, p. 563.

114/28. *Libri.*—A botany text-book, nineteen years old, is not good enough for anyone ambitious to pass the Major. You should get the Geddes-Behrens mentioned last week.

113/68. *Nagol* asks us whether Thymol should be pronounced thigh-mol or time-ol. Neither; tie-mol is the recognised way.

112/14. *Shemus.*—(1) Eikonogen and hydroquinone-developer. See July 30, p. 169. (2) The following are the directions for mounting Ilford P.O. Paper:—Directly after squeegeeing take a piece of enamelled black paper, which has previously been trimmed to a size $\frac{1}{16}$ of an inch smaller all round than the print. Paste the white side of the paper and place it on the damp print as it rests on the plate. Squeegee well down, and leave to dry without heat. When perfectly dry the print falls off with the backing-paper attached. It can then be trimmed and mounted on card as usual. The black paper must be cut smaller than the print as no paste must be allowed to get over the edges of print whilst on the plate or it will become pasted to it. Do not pull or strip prints as it will spoil results. Prints that have been dried may be glazed if soaked in water for at least an hour before squeegeeing on plate.

114/24. *H. R.*—You do not tell us for what purpose the reducing agent is required.

114/4. *Assistant.*—(1) There is no means for restoring faded photographs. (2) Arsenical paste is used for destroying the nerve, or devitalising the pulp of teeth. See THE CHEMIST AND DRUGGIST, July 18, 1891, p. 89, for directions.

114/34. *Solubility.*—Soluble essence of lemon, THE CHEMIST AND DRUGGIST, May 21, 1892, p. 754. Soluble essence of ginger, August 20 (current volume), p. 275.

112/35. *Thymol.*—We should fix 2*s.* as the minimum charge for the ointment.

115/29. *Neuralgia.*—(1) To make a Water Filter place a little well-boiled tow in the stem of a funnel, over this a layer of small pebbles, half-an-inch or so deep, then a 1-inch layer of sand, and the same of coarsely-powdered animal charcoal, and lastly a piece of flannel, which is kept down by means of several smooth stones. (2) It depends upon the nature of neuralgia what "the best and most effective treatment" may be. Generally 12 grains of phenacetin or 8 grains of antipyrin relieves. By the way, we are not accustomed having questions pitched at us as if we were candidates for an examination. If that sort of thing were to become general we should close up the columns altogether. We take enough pains in answering questions to warrant querists' treating them as a favour—which they are. This remark applies to some besides yourself.

115/55. *Bichrom.*—Bichromate Battery Solution:—

	Oz.
Bichromate of potash	1
Sulphuric acid	2
Water to	10

Dissolve the bichromate in the water and add the acid. When cold make up to 10 oz.

114/68. *H. W. B.*—Oleum Empyreumaticum.—The empyreumatic oils are oils obtained by destructive distillation, such as tar oil, and oleum animalis, but the latter is more commonly known as ol. empyreumatic.

115/5. *Papier.*—It does not matter what the strength of the alkali bath is so long as it neutralises the residual acid in the paper. A pound of soda ash to 10 gallons of water would suit.

Information Wanted.

Replies to the following are requested by subscribers of THE CHEMIST AND DRUGGIST.

112/44. What is the average weight of a peck of mushrooms?

118/63. Address of Julius Jeffries & Co., respirator manufacturers.

103/31. Formula for rennet-powder.

DEEDS OF ARRANGEMENT.

The following deeds of arrangement with creditors have been filed at the Bills of Sale Office, under the provisions of the Deeds of Arrangement Act, 1867. Some of these deeds are for the purpose of carrying out compositions with creditors (and such are specified below), but the great majority of them are "assignments" in the ordinary form, to a trustee or trustees, for the benefit of creditors. The Act referred to expressly provides that registration shall not give validity to any deed which is an act of bankruptcy, and there is no provision, in the Act making any of these arrangements binding upon dissenting creditors.

Stoveld & Co. (John Henry Stoveld, trading as), 20 Cannon Street and 13 Morning Street, Manchester, surgical-instrument dealer. Trustee, James A Penny, 30 Dale Street, Manchester, paper manufacturer Dated, September 9; filed, September 12. Unsecured liabilities, 195*l.* estimated net assets, 75*l.* The following are scheduled as creditors:—

	£	s.	d.
Bridgford & Sons, Manchester	16	10	0
Brown, J., Derby	10	13	6
McMillan, J., & Co., Manchester	19	6	7
Robinson & Son, Chesterfield	32	8	10
St. Dalmas, A. de, Leicester	12	0	9
Sutcliffe, W., Manchester	20	0	0

Steuart, David Vincent, The Albert Chemical-works, Ashton New Road, and Croft Street, Clayton, near Manchester, and North Leigh, Hilton Park, Prestwich, near Manchester, chemical manufacturer. Trustee: Joseph Affleck, 22 Tib Lane, Cross Street, Manchester (C.A.). Dated, September 13; filed, September 20. Unsecured liabilities, 4,506*l.* 3*s.* 6*d.*; estimated net assets, 596*l.* 1*s.* 8*d.*; creditors fully secured, 3,092*l.* The following are scheduled as creditors:—

	£	s.	d.
Allen, Wm., Manchester	83	13	10
Archer, T. L., Manchester	78	15	6
Ashton Gas Co., Ashton-under-Lyne	36	7	6
Bailes & Hallsworth, Leeds	24	2	0
Barron, R., Manchester	31	0	0
Bird, Isaac, Manchester	121	5	3
Blacksage, Thos., Dukinfield	16	16	5
Blackshaw, John, Stockport	34	13	0
Bradford Colliery Co., Manchester	116	13	
Brixton Lime Co., Manchester	204	10	3
Brodbury & Hirsch, Liverpool	495	7	9
Burton & Co., Manchester	42	0	0
Cardwell, J. L., & Co., Manchester	27	1	8
Chambers, Bell & Chambers, Hull	13	10	10
Dukinfield Coal Co., Dukinfield	62	3	9
Dunn Bros., Manchester	233	0	0
Gratrix, S., jun., & Bro., Manchester	82	19	4
Horrocks, Thos., Manchester	37	1	7
Hyde Gas Co., Hyde	196	11	3
Johnson, Nephew, Manchester	39	17	3
Lancashire and Yorkshire Railway Co., Beswick	18	7	4
Lancaster, H., Liverpool	18	15	0
Lomax, Thos., Manchester	90	2	4
London and North-Western Railway Co., Manchester	19	1	6
Malcolm, Alfred, Manchester	57	6	10
Manchester Corporation, Manchester	61	6	3
Metcalf, Thos., & Co., Manchester	73	2	11
Pope & Co., Clayton	10	0	2
Roberts, R., Liverpool	41	4	11
Rudkin, Samuel, Manchester	103	15	8
Stockport Corporation, Stockport	259	19	0
Sutton, James, Clayton	392	19	1
Topping Bros., Bradford	55	0	0
Trapp, C., Manchester	14	0	7
Union Banking Co. (Limited), Manchester	400	0	0
Wallworth, W. H., Manchester	34	13	11
Widnes Foundry Co., Widnes	32	6	6
Wilson, Mrs. A. P., Bedford	700	0	0
Woolley, D., Manchester	45	0	0

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Soap Makers by Appointment to

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6d.	SIZE, unscented	- - -	4s.
1s.	„	all shapes, Washing or Shaving	8s.
1s. 6d.	„	Ditto ditto	12s.
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TRANSPARENT GLYCERINE	2s.	per Box of 3 Tablets	16s. Per dozen Boxes.

DISCOUNT of 20 per Cent.

On all ORDERS of NOT LESS than £5.

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NON-TOXIC AND NON-IRRITANT.

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Minimum Dose—1 Gramme or 15 Grains per day in a Pint of Water.

This may be divided into two or three portions during the day.

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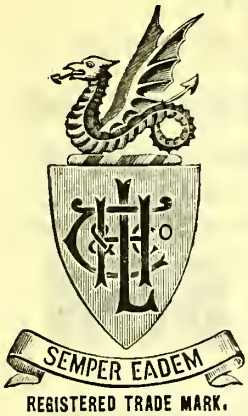

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"Respecting the extent to which Caffyn succeeds in (*a*) excluding fibre, (*b*) including nourishing matter, (*c*) including stimulating matter, and (*d*) maintaining natural relationships, I may state that (*a*) manifestly fibre is excluded, for Liquor Carnis is a fluid; (*b*) manifestly albumin is included, for on heating Liquor Carnis abundance of clots of albumin at once show themselves; while my analyses and inspection show that (*c*) the stimulating principles are all included and (*d*) the natural relationships perfectly maintained.

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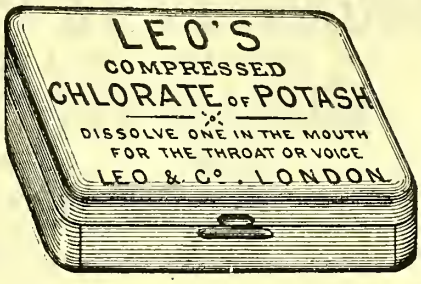

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Red Oxyiodide of Bismuth.—Very superior to Iodoform. Odourless and unirritating, Powerfully antiseptic. Cures wounds, sores, eczema, intertrigo, chapped hands, sweating feet, &c. Price 1/6 per oz.; ointment (1 in 10), 3/6 per lb.

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Leaflets descriptive of above, and monthly price current, on application.
Special terms to Hospitals and Public Institutions.

WILLOWS, FRANCIS & BUTLER, WHOLESALE AND EXPORT DRUGGISTS,
ESTABLISHED 1751,
101 HIGH HOLBORN, LONDON, W.C.

ESTABLISHED 1775.

ALFRED WHITE & SONS,

MANUFACTURING CHEMISTS,

Manufacturers of Acids, Æthers, Sp. Æther. Nit., Sp. Ammon. Arom., Liq. Ammon., Soldering Solution, &c., and Preparations of Alum, Animal Charcoal, Antimony, Baryta, Bismuth, Strontia, Zinc, &c.

CASTLE STREET, SAFFRON HILL, E.C.

Works:—WEST DRAYTON, MIDDLESEX. Telegraphic Address:—"ETHERMETHYLATED LONDON."

MACKEY, MACKEY & CO.

Wholesale Druggists, Manufacturing Chemists.

MEDALS—Cape Town, 1877; Brighton, 1881; Cork, 1883; Dublin, 1884; International Inventions Exhibition, 1885. GOLD MEDAL—International Health Exhibition, 1884.

Makers of Soluble Gelatine-, Pearl-, and Sugar-coated Pills, Tabellæ, Hypodermic Injections, Pessaries, Suppositories, Bougies, Pastils, Fluid Extracts, Oleates of the Metals.

SPECIALTIES—Mistura Bismuthi Co. (Tonic Digestive); Mistura Cerii Co. (and all Preparations of Cerium); Glycerol Pepsine et Euonymin (Digestive Cholagogue); Glycerol Podophylli (Cathartic); Mistura Cascaræ Sagradæ Co. (Tonic Laxative); OL. EUCALYPTI, P.B.; Eucalyptol Disinfectants; Oxychlorogene Disinfectants; Carbolic Acid; Carbolic Powders.

Drugs and Chemicals of Best Quality. New Remedies and Special Pharmaceutical Preparations, Veterinary Drugs and Chemicals. Price Lists and Samples on Application.

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ALLCHIN'S SMELLING SALTS.

The increasing demand for these celebrated Smelling Salts has induced the Proprietor to bring them out in a more portable and elegant form than hitherto supplied. The New-shaped Bottles will be found well worth the attention of the Trade.

WHITE FLINT GLASS, Handsomely Cut, 4 Sizes, Retail **6d. 1/6, 2/-, 2/6**
" " " Watch Shape, for the Pocket, 3 Sizes, Retail.. .. .. **1/-, 1/6, 2/-**

ALFRED ALLCHIN'S PHARMACEUTICAL PREPARATIONS.

SMELLING SALTS.—The MONOCARBONATE OF AMMONIA, manufactured by ALFRED ALLCHIN, is the Neutral Salt so much valued for the preparation of Smelling Salts. It retains its pungency as long as any Salt remains. 1-lb. bottles, 2*s.* 8*d.* each.

LIQ. AMMON. ODORIF., or VOLATILE ESS., for Allchin's Ammon. Monocarb. In Stoppered Bottles, 4-oz., 1*s.* 8*d*; 8-oz. 3*s.*; 16-oz., 6*s.* each.

PUNGENTS, with handsome Cut Stoppers, filled with Allchin's Smelling Salts, 8*s.* per doz.; retail, 1*s.*

OL. ROSÆ. CONCENT.—One ounce of this Concentrated Solution of Anchusine, mixed with two pounds of Oil will give it the usual colour; it is also admirably adapted for colouring Pomades, Lip Salve, Camphor Balls, &c. 4*s.* per lb.

OL. FLAV. CONC.—One ounce, added to two pounds of Pomade, will give the usual golden colour, which is permanent. 4*s.* per lb.

Sole Proprietors—

W. BUSH & CO. (late Allchin), Chemists, 94 Richmond Road, Barnsbury, LONDON.

TO BE HAD OF ALL THE WHOLESALE HOUSES.

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4 Cullum Street,

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MANUFACTURERS' AGENT AND IMPORTER OF

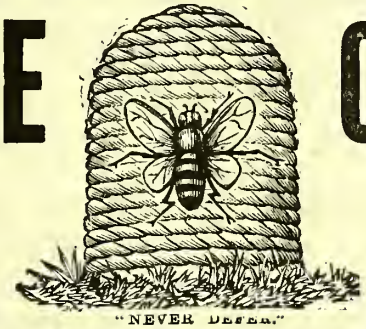
CHEMICALS, DRUGS, ESSENTIAL OILS.

STOCK KEPT IN LONDON. WHOLESALE QUANTITIES ONLY.

SARG'S ORIGINAL BEEHIVE BRAND.

Sarg's GLYCERINE

CERESINE WAX.



"NEVER DEFER."

CERESINE WAX.

Sarg's GLYCERINE

THE ONLY PERFECT SUBSTITUTE FOR BEESWAX AT ONE-THIRD OF ITS COST.

Contains no Mineral Oil or Paraffin, but is perfectly PURE. Highly refined, extra hard. White, Natural Yellow, & Orange.

Supplied in square blocks, each wrapped in paper and packed in cases of 1 cwt. each.

None Genuine unless Cases, Wrappers, and Blocks are branded both with Maker's Name, "SARG," and the "BEEHIVE" Trade Mark.

Sole Agent: FREDK. BOEHM, 4 Cullum St., LONDON, E.C.

SOLE AGENT, FREDK. BOEHM, LONDON.

CHININFABRIK AUERBACH

(Dr. SEYFERTH),

SULPHATE OF QUININE

And all other Cinchona Preparations.

STOCK KEPT IN LONDON.

Certified by Professor Fresenius, of Wiesbaden, as equal to the best preparations of other marks.

THE FACTORY SUPPLIED THE AMERICAN, RUSSIAN, and DUTCH GOVERNMENTS DURING LAST SEASON.

DEUTSCHE GOLD AND SILBER SCHEIDE ANSTALT

(VORMALS ROESSLER),

FRANKFORT-ON-MAINE,

MANUFACTURERS OF CHEMICALS

For Pharmaceutical, Photographic, and Technical Purposes. [2]

SPECIALITIES.

NITRATE OF SILVER.	PERMANGAN. OF POTASH.
CHLORIDE OF GOLD.	CHROME ALUM.
CYANIDE OF POTASH.	ACETANILIDE.

SOLE AGENT, FREDK. BOEHM, LONDON.

FOREIGN SPECIALITIES & MEDICINES.

REVISED PRICE LIST.

ROBERTS & CO.

FOREIGN AND ENGLISH CHEMISTS,

WHOLESALE, IMPORT, AND EXPORT AGENTS FOR

FOREIGN MEDICINES AND PATENTS,

76 NEW BOND STREET, LONDON.

Messrs. Roberts & Co. beg to inform the Trade that they are Agents for all the principal French and Foreign Specialities and Medicines, a large supply of which they have always on hand, and can supply on very favourable terms. They are in daily communication with their Paris House, and can offer exceptional facilities for procuring New Medicines, &c., &c., with very little delay. The following is a list of a few that they name *au hazard*, and that have a large sale :—

Retail	Per doz.	Retail	Per dez.	Retail	Per dez.	Retail	Per doz.
4/6..Alcool de Menthe Ricqles	41/6	4/6..Capsules Matioo	35/	2/3..Guyot's Liq. Geudron	18/	2/9..Rabuteau's Drgées Ferrug.	24/6
2/9 Ditto ditto	21/	4/6.. „ Mathey Caylus	35/	9/ ..Laville's Gout Tincture	81/	7/ .. „ Elixir Ferrug.	65/
2/9..Aubergier's Syrup	27/	4/6..Chassaing's Wine	39/.	9/ .. „ „ Pills	78/	2/9..Rabuteau's Syrup Ferrug.	24/6
1/9.. „ Pâté	15/	2/9.. „ Pills	24/	1/1½ Papier Fayard	6/9	4/ ..Racahout des Arabes	31/
6/6..Bay Rum	57/	4/6..Clin's Dragées Bromide Cam.	45/	2/3.. Ditto	13/6	4/6..Reynal's Bougies	38/
3/6.. Ditto	31/	5/ ..Eau de Botot (Genuine)	40/	2/3..Papier Fruneau	14/6	2/9..Ricerd's Injection	24/
2/ ..Belloc's Charcoal	15/	3/ .. Ditto	24/	4/ .. Ditto	24/6	4/6.. „ Capsules	36/
1/9.. „ Lozenges	15/	2/ ..Espic's Cigarettes	13/6	1/9..Pâté d'Aubergier	15/	9/ .. „ Syrup..90/;	4/6, 42/
4/6..Blancard's Pills	32/	4/6..Elixir de Coca (Mariani)	48/	1/9.. „ de Berthé	15/6	1/6..Star Paper	11/
2/6.. Ditte	18/	2/9..Flon's Syrup	23/	2/9.. „ de Coca Mariani	25/	1/9..Vallet's Pills	14/6
4/6..Brou's Injection	27/	..Gayetty's Paper		1/9.. „ de Georgé	14/6	2/9.. Ditto	23/
4/6..Bugeaud's Wine	36/	2/3..Granules Arsen. Acid	13/6	1/1½ „ Ditto	9/	4/6..Veloutine (Wht, Pnk, Oim.)	28/
3/6..Bully's Vinegar	30/	2/9.. „ „ Iron	14/5	1/6.. „ de Nafé	13/6	3/6.. Ditto ditto	22/
2/ .. Ditto	14/6	2/9.. „ „ Soda	15/4	1/9.. „ Regnauld	14/6	2/9..Vichot's Trochisques	22/
4/6..Candé's (Lait Antéphiliq.)	36/	2/9..Grimault's Syrup Lime	24/	7/ ..Pierlot's Valerian	60/	4/6..Vin Mariani	36/
4 6..Capsules Bromide Camph.	45/						

SOLE EUROPEAN AGENTS FOR BATTLE & CO.'S BROMIDIA AND IODIA, AND BLOUNT'S OIL OF TAR AND TEREMORRHU

MM. Roberts & Cie. ont l'honneur d'informer MM. les Pharmaciens Spécialistes de France et de l'Etranger qu'ils se mettent à leur disposition pour des dépôts qu'ils voudraient établir à Londres. On peut avoir tous renseignements en s'adressant à leur maison de Londres ou à Paris.

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„ —GLASGOW: „ F. R. MUELLER & CO., 47 Waterloo Street.
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"SPECIALITIES" OF WIDE REPUTATION

Suitably Packed for Home and Export, in various Languages, for all Markets.

'COAGULINE' The Cement for all Broken Articles.

LINSEED, Chloro.-Linseed and Throat Lozenges, Jujubes, &c.

'LAVA', A fusible, imperishable CEMENT. Glass Valve Tubes, For Feeding Bottles.

ABSORBENT COTTON WOOL

CUE CEMENT, Cue Tips, Wafers, FIXERS, CHALKS, &c.

COMPOUND ESSENCE OF LINSEED, FOR COUGHS AND COLDS.

OXYMEL SCILLÆ (exceptional'y brilliant) Dec. Senegæ Col. Ct. PHOSPHOSACCHARITE. GLYCERLINE. Linum Glycerinum.

'SAPO-LINI' LINSEED SOAP, IN "BROWN WINDSOR" AND "ROSOTTO."

CHESHIRE BIRDLIME.

EMOLLIENT For Chapped Hands, &c.

ELASTIC STOCKINGS, KNEE CAPS, SOCKS, ETC.

GUN COVER and CARRIER.

CHEMICAL Disinfectant

KAY'S TIC PILLS LINUM CATHARTICUM PILLS

'THERMONE' HEAT RADIATOR.

Prices, Circulars with Name and Address, Specimens, Show Cards, Glass Tablets, &c., &c., on application.

KAY BROTHERS LIMITED, Laboratory and Works, ST. PETERSGATE MILLS, **STOCKPORT,** Founded A.D. 1786. Incorporated 1887.

BARCLAY & SONS, LIMITED.

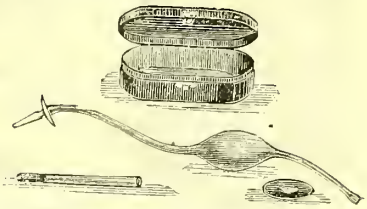
SEAMLESS ENEMAS.

RELIABLE QUALITY.

BEST ENAMELLED (Black only).
In Oval Cloth Boxes, complete, per doz. .. 33/-
In Cedar Boxes " " .. 29/-

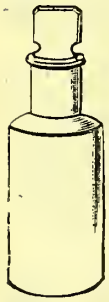
BLACK SEAMLESS SHAPE
(Not Enamelled).
In Cedar Boxes, complete, per doz. 24/-

"HYGIENIC" ENEMAS
(Black), with Flexible Pipe.
In Oval Cloth Box, per doz. 30/-

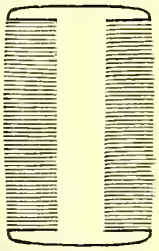


95 FARRINGDON ST., LONDON, E.C.

EXPORT CHEMISTS' SUNDRIES



Graduated white Glass Measures and Tumblers; Screw-neck, Plain, and Boat-shape Feeding Bottles, Male and Female Glass Syringes, Decorated and plain China Feeding Cups, Bed Pans, tall round white Medicine Phials, Crystal Homœos, Stoppered Bottles, Dressing and Small-tooth Combs, &c., specially suitable for India and Colonies.



HENRY W. BUSH & CO.

MANUFACTURERS AND IMPORTERS,

BURY STREET, ST. MARY AXE, LONDON, E.C.

M. BAILEY & CO.

MANUFACTURERS OF DRUGGISTS' SUNDRIES.

M. B. & Co. beg to call the attention of the Trade to the following articles manufactured by them:—

Glass Syringes, Nipple Shields, Breast Exhausters, Fittings for Feeding Bottles, Tubes, and Tube Work in all its branches, &c., &c.

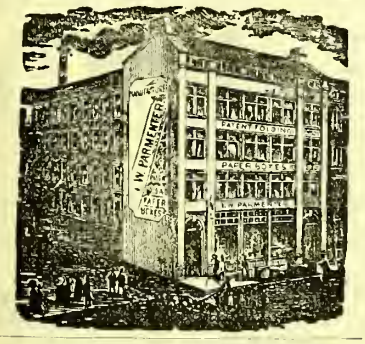
Sole Proprietors and Manufacturers of J. Brooks & Co.'s celebrated Specialities:—Winter Cream, Lip Salve, Solidified Camphor Cream, Glycerine Jelly, Perfumery, &c., &c.

Buyers are cautioned against imitations of these World-renowned preparations. None are genuine unless bearing our Registered Trade Mark.

MAY BE OBTAINED THROUGH ANY OF THE WHOLESALE HOUSES. WHOLESALE AND EXPORT ONLY FROM

M. BAILEY & CO., 32 and 34 Buckingham Road, KINGSLAND, N.

TELEPHONE NO. 6561.



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MOVE WITH THE TIMES!

PATENT FOLDING BOXES

For Packing Pills, Powders, Patent Medicines, Foods and Drugs of all kinds, Postal Bottle Boxes. Samples and Quotations forwarded.

ADVANTAGES.

Economy.—These Boxes are much Cheaper than ordinary Boxes, and just as strong. Made any size.
Save Space.—Fifty folded Boxes fit in the same space as five standing. Take up no room.
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Advertise.—Very effective advertisers.

SPECIALITY—PARCEL POST BOTTLE BOXES, CORRUGATED LININGS.

I. W. PARMENTER & CO., LIM.

MANUFACTURERS, PRINTERS & LITHOGRAPHERS,

7 & 8 Kirby Street, Hatton Garden, E.C.

CHEST AND LUNG PROTECTORS.

FIG. 97.

		No. 1	2	3	4	5	6
Scarlet—							
Double.....	per doz.	14/-	18/-	22/-	27/-	36/-	44/-
Single	„	6/-	8/-	9/6	11/6	15/6	24/6
The "Winter"							
Fig. 97. Vest Shape,	„	18/-	24/-	30/-	36/-	42/-	55/-
Natural Grey Fur-Felt (Solport's).							
Double.....	per doz.	15/-	20/-	25/6	34/-	42/6	52/-
Single	„	6/6	9/-	12/-	15/6	20/-	25/-

NATURAL GREY FUR-FELT CHEST PROTECTORS.

These are made from a specially-manufactured felt, the material of which is pure, soft, *undyed* Lamb's Wool—to which is added the Fur of the Grey Coney.

They present several advantages.

They are very comfortable to wear, being soft, smooth, and warm.

They allow free circulation for the air.

They are undyed, so cannot irritate the most sensitive skin.

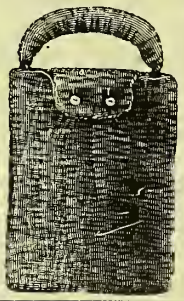
FRANCIS NEWBERY & SONS,

Druggists' Sundriesmen, 1 & 3 King Edward St., Newgate St., LONDON, E.C.

ESTABLISHED 1746.

SCHUTZE'S IMPERISHABLE HOT-WATER BOTTLES

REGISTERED NO. 196646.



These are made in Nickel Tin, which is **Rust-Proof** and always keeps bright, and covered in the finest quality Plush.

The special feature of this bottle is, viz., "**ITS IMPERISHABLE NATURE,**" which will recommend it in preference to Indiarubber Bottles and especially so for export to extreme climates

Sold in Covers complete, in 3 sizes.

No. 1.	9½ × 6½ × 2 inches ..	..	5/6 each.
„ 2.	10 × 7 × 2 „ ..	..	6/9 „
„ 3.	11 × 7½ × 2 „ ..	..	7/9 „

Subject to Discount as usual.

36a ALDERSGATE ST.,
LONDON, E.C.

Telegraphic Address—"ODORATORS LONDON."

Telegrams—
"LINT LIVERPOOL."

THE
LIVERPOOL PATENT LINT CO.,
MARK ST. MILLS,
NETHERFIELD ROAD NORTH,
LIVERPOOL.

LINT.

MANUFACTURERS OF
FLAX, & COTTON,
LINTS,
ABSORBENT, AND CARDED
COTTON WOOLS,
ABSORBENT, OPEN WHITE, and GREY
BANDAGES,
SURGEON'S, AND CARBOLIZED
TOW.

THE SURGEONS' LINT,

V.B. QUALITY.

The superior quality of Newsome's Absorbent Surgeons' Lint is universally admitted. The V.B. quality is quite pure and of great superficial are and exquisite softness. The C., D., E., and F. qualities are equally pure and absorbent; E. is stronger in fabric.

NEWSOME' BLEACHED ROLLED BANDAGES, 3 in., 2½ in., 2 in. Also SURGICAL ABSORBENT OPEN BANDAGES.

Specially Bleached & Grey Carded Cotton Wools, Absorbent & Bleached & Grey Waddings; also Sheet Waddings, Tow, &c.

THE TRADE SUPPLIED THROUGH THE LONDON AND PROVINCIAL WHOLESALE HOUSES, OR FROM

C. NEWSOME, MANUFACTURER, BEEHIVE MILLS, ANCOATS, **MANCHESTER.**

London Agents—B. PRATT & CO., 1 Wood Street, E.C. *Telegraphic Address*—"Newsome, Ancoats, Manchester."

THE ONLY PERFECT

SUSPENSORY BANDAGE

IS THE

SYRACUSE,

With Self-Adjusting Loop at Back of Pouch.

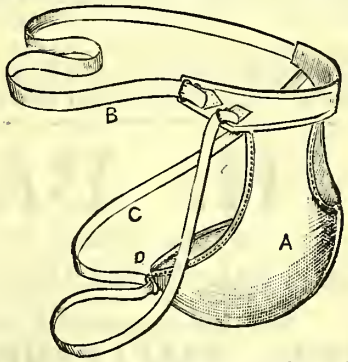
(PATENTED IN ENGLAND.)

HAS THE LARGEST SALE OF ANY SUSPENSORY BANDAGE IN THE STATES.

3 SIZES—Large, Medium, and Small.

Made in Seven Qualities, to suit all Markets.

Each Bandage is carded separately, with Printed Guarantee.



Each Bandage bears a Guarantee to give satisfaction to wearer, or money returned at our expense.

COTTON POUCHES.

Nos.	10	16	21
	6/6	12/	18/ per doz.

SILK POUCHES.

Nos.	26	31	34	36
	24/	30/	48/	72/ per doz.

We are still prepared to mail a Free Sample of No. 26 to any Chemist in the United Kingdom who would like to inspect our goods, and would call attention to the fact that our Bandages are advertised in all the leading Athletic papers, and are largely used by Athletes of all kinds. We would strongly recommend all Chemists, now that the touring season is about commencing, to hold small stock, which will enable them to supply our Bandages when asked for.

May be obtained from all leading Druggists' Sundries Houses throughout the Country, or from the

WELLS MANUFACTURING CO. (H. C. Quelch), LUDGATE SQUARE, LONDON, E.C.

By Royal Letters Patent.

THE TEETHING PADS TO SELL.

THE "LILY" BABY COMFORTER.

The teats are seamless, and always retain their proper shape.
THE CHILD CANNOT POSSIBLY IMBIBE AIR.

All Patterns may now be had, fitted with Marriott's New Patent Ring Socket, No. 17,135,

For inserting Bone, India-rubber, and other Rings into Teething Pads, Baby Comforters, or other articles without cutting the ring, which is guaranteed not to break.

3d., 4d., 6d., 9d., & 1s. Retail.

Patentees and Manufacturers, **E. MARRIOTT & CO., HASTINGS.**

SPECIAL EXPORT TERMS FOR LARGE ORDERS.

New Brace and Belt combined, for Youths & Gents

VINCENT WOOD,

Bonâ-fide Makers of High-class

Trusses, Abdominal Belts, Chest-expanding Braces, Riding Belts, Suspensory Bandages, Galvano-Electric Belts, Corsets, & Appliances, Magnetic ditto, Chest Protectors, & Surgical Appliances.

THE CHEAPEST, BEST, & LARGEST HOUSE IN THE TRADE.

Circulars, Statuettes, &c., supplied Free.

3 St. Andrew's St., Holborn Circus (Adjoins Church),

LONDON, E.C.

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FRANCIS' CAPSICUM LEAVES

REGISTERED.—More effectual than Mustard Leaves. May be obtained through any Wholesale House. 6*d.* Tins, price 2*s.* 8*d.* per dozen.

CAPSICUM is highly recommended in *The Lancet* by Sir J—— S——, M.D., and Dr. H—— J—— B—— for the treatment of Rheumatism, Neuralgia, Bronchitis, Bronchial Catarrh, Sub-acute Gout, &c.

GLASS BOTTLES.

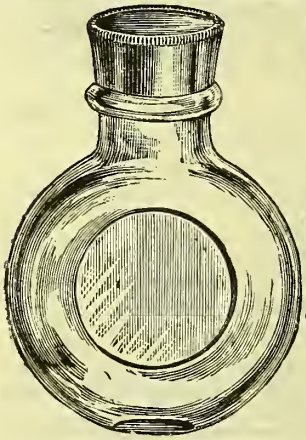
TO WHOLESALE AND EXPORT BUYERS.

DISPENSING BOTTLES of best quality, in White Flint or all the best and newest tints. **VIALS.**—White Flint or Coloured, in all shapes and sizes **FEEDING BOTTLES.**—Plain mouths or Screw Stoppers, in White or Green Flint. **LIME CREAMS AND KALIS** of all sizes. **ESSENCE BOTTLES** of every description, Plain or Stoppered. **MALT EXTRACT BOTTLES,** in Actinic Green, Amber, Dark Blue, or White Flint.

TO FOREIGN AND COLONIAL BUYERS.

Having recently erected spacious Warehouses, we are enabled to give special attention to packing Goods for Export. Only experienced Packers employed.

E. A. HEARN & CO., WHOLESALE & EXPORT GLASS BOTTLE MANUFACTURERS, ECLIPSE GLASS WORKS, CHATSWORTH ROAD, CLAPTON, **LONDON, E.**



R. H. BARRETT,

Flint Glass Bottle Works,

99 THE OVAL, CAMBRIDGE HEATH, LONDON, E.

For Beauty, Cheapness, and Efficiency R. H. BARRETT'S

WATCH SMELLING-SALT BOTTLES

EXCEL ALL OTHERS IN THE MARKET.

The Caps are all fitted with INDESTRUCTIBLE WASHERS, to resist the action of Ammonia and retain the strength of the Salts.

Price, assorted white and coloured, **10/6** per gross (in 5-gross lots).

Chemists' and Perfumers' Bottles in great variety, Plain or Stoppered

Telegraphic Address—"FOREFRONT LONDON." [1]

BOTTLES

Write for revised Price List of Dispensing Bottles, &c.

SAMPLES ON APPLICATION.

Special Quotations for Large Quantities.

E. YOULDON,

EAST LONDON GLASS BOTTLE WAREHOUSE,

36, 38, & 40 Great Garden Street.

WHITECHAPEL, LONDON, E.

Registered Trade Mark.

BEST FLINT DISPENSING BOTTLES, WHITE, BLUE, OR GREEN TINT, AMBER AND ALL OTHER COLOURS.

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HAND MADE SHOP-ROUNDS. OPAL, FLINT, AND TURQUOISE BOXES. SPECIAL ATTENTION GIVEN TO PROPRIETARY BOTTLES.

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NEVER FAILING HORSE, CATTLE & SHEEP MEDICINES.

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For Kicks, Cuts, Bruises, Sore Withers Swellings, Strains of Ligaments and Tendons, Saddle Galls, &c. It rapidly relieves Straining and Paining after Calving and Lambing, and is the remedy for Swollen Udders and Sore Teats.

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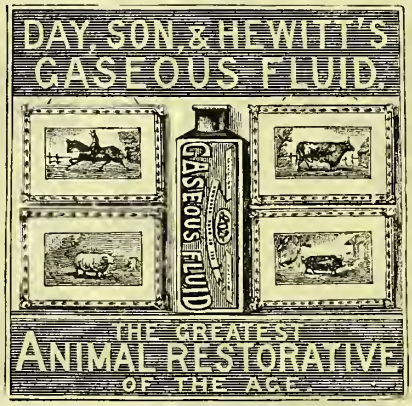

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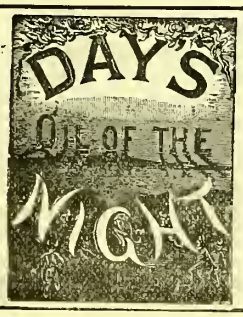

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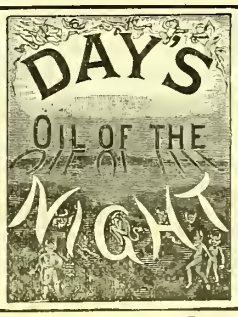

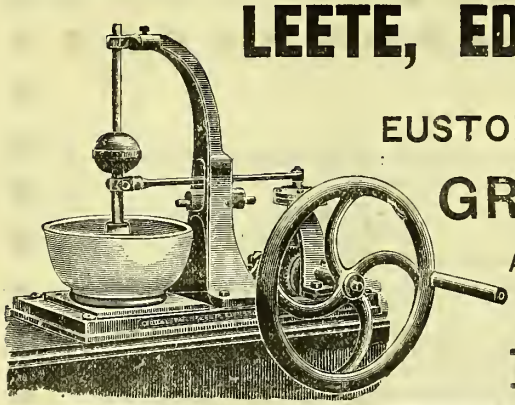

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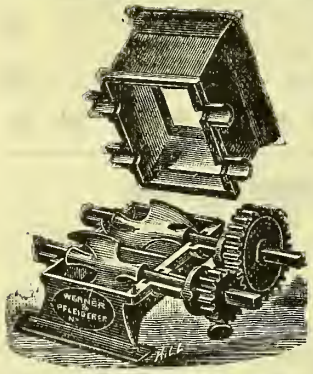

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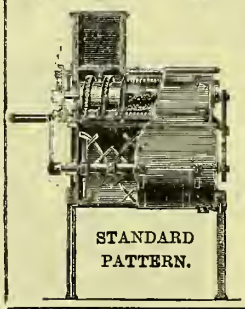

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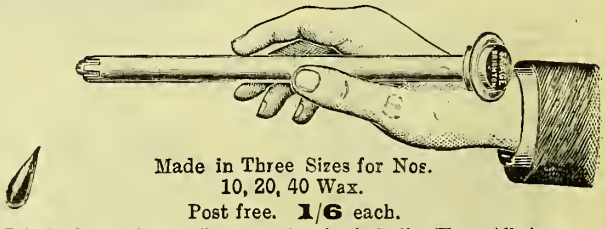

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The favourite rubbing for Athletes, Cyclists, and Sportsmen.
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Wholesale of Messrs. NEWBERY & SON, LYNCH & Co., BARCLAY & SONS, EDWARDS & SON, SANGER & SONS, HOVENDEN & SONS, London; Messrs. EVANS, Liverpool; Messrs. RAIMES & Co., York.

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BRIGHTENS FURNITURE WITH LITTLE LABOUR.

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TRADE MARK,

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LEMON OIL,

Absolutely pure. Nothing finer imported.

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The above is the only Address.

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For Milk, Butter, Cream, Sausages, &c., &c.

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ACIDS OF ALL KINDS.

GRANULATED EFFERVESCENT PREPARATIONS

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ARE THE BEST AND CHEAPEST.

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ON THESE MEDICINAL CAPSULES CHEMISTS ARE ALLOWED LARGE PROFIT.

SANTAL OIL CAPSULES, PERUVIAN MIXTURE CAPSULES, COPAIBA BALSAM CAPSULES, CUBEB OIL AND COPAIBA CAPSULES, MALE FERN CAPSULES.

ALL KINDS OF CAPSULES.

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ALL DRUGS WARRANTED TO BE GENUINE.

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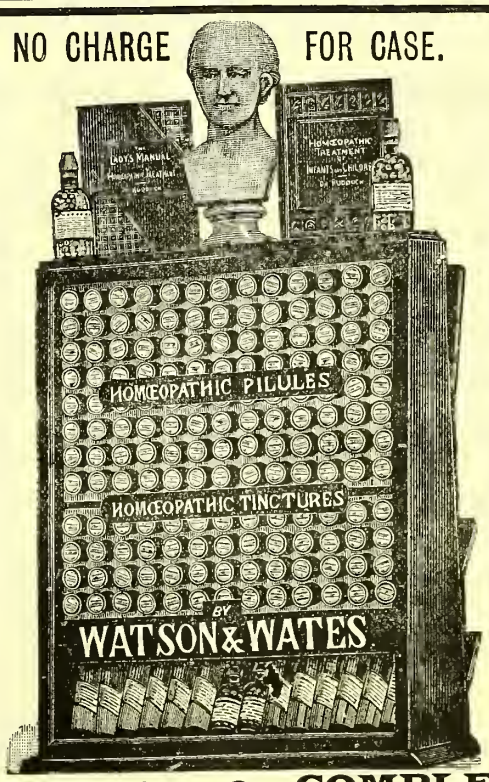

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PRESENTED GRATIS with an opening order to any Chemists' own selection of medicines may be made.

Pilules and Tinctures at 3s. 6d. doz.

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Dr. J. COLLIS BROWNE'S

CHLORODYNE.

THE ORIGINAL AND ONLY GENUINE.

IMPORTANT CAUTIONS.

From Lord Chancellor SELBORNE, Vice-Chancellor Sir W. PAGE WOOD and the LORDS JUSTICES OF APPEAL.

VICE-CHANCELLOR SIR W. PAGE WOOD, by whom the suit in Chancery was first heard, stated in his judgment that "Dr. J. Collis Browne was undoubtedly the Inventor of Chlorodyne, that the whole story of the Defendant Freeman was as deliberately untrue as the falsehood he had deposed to with reference to the use of his Chlorodyne in the Hospital."

The VICE-CHANCELLOR also stated, "that Chlorodyne was a fanciful name, and had application been made sooner, the Court would have given Dr. Browne protection."

LORD CHANCELLOR SELBORNE coincided with the judgment of the Vice-Chancellor upon this point, and stated, "that had application been made at a proper time and place, the Court would have found means to restrain the Defendant from misrepresenting the decision of the Vice-Chancellor."

LORD JUSTICE JAMES, on appeal, stated in his judgment, "that the Defendant Freeman had made a deliberate misrepresentation of the decision of Vice-Chancellor Wood."

It was proved in Court, on affidavit by Mrs. Forbes, of Paris, that the testimonial published in the *Times*, November 14th, 1865, speaking of the great efficacy of Chlorodyne in Cholera, referred to Dr. J. Collis Browne's Chlorodyne, and that she never used any other, that she had written to the Defendant Freeman to that effect; notwithstanding which notice the Defendant publishes the said testimonial as referring to his medicine.

The Editor of the *Medical Times*, in his report on Chlorodyne, January 13th, 1866, gives information that the Chlorodyne referred to was the medicine introduced by a retired Army Medical Officer, which was Dr. J. Collis Browne; still this is published by the Defendant as testimony to his medicine.

Numerous affidavits from eminent Physicians and others were produced in Court, stating that Dr. J. Collis Browne was the inventor of Chlorodyne, and that when prescribing they mean no other.

The Defendant himself publishes that his compound is in effect and composition quite different to any other preparation; nevertheless he assumes the name, testimonials, &c., of Chlorodyne.

Technicalities in law prevent that protection which the public should justly have against such a course of conduct. It is now incumbent on all who purchase Chlorodyne to see that the name, Dr. J. Collis Browne's Chlorodyne, is engraved on the Government Stamp, as it is not sold otherwise. All other compounds under the name of Chlorodyne are spurious. All attempts at analysis have failed; hence the statement that the constituents of Chlorodyne are known is a misrepresentation.

ORIGINAL AND

ONLY GENUINE.

FURTHER IMPORTANT NOTICE.

The subjoined list of eminent Firms concur with Vice-Chancellor Sir W. Page Wood's statement in Court, that Dr. Collis Browne was undoubtedly the Inventor of Chlorodyne; and that when Chlorodyne, or the Original Chlorodyne, is ordered, they invariably supply Dr. J. Collis Browne's:—

Apothecaries' Hall,	London
Allen, Hanbury & Co.,	"
Baiss Brothers,	"
Banks & Richards,	Birmingham
Barron, Harvey & Co.,	London
Bell, John, & Co.,	"
Bourne & Taylor,	"
Corbyn & Co.,	"
Cox & Gould,	"
Curling & Co.,	"
Curtis & Co.,	"
Davy, M'Murdo & Co.	"
Dobbin. W., & Co., Limited,	Belfast
Drew, Barron & Co.,	London
Drew, B., & Alexander,	"
Dunn & Company,	"
Edwards, W.,	"
Evans, Gadd & Co.,	Exeter
Evans, Lescher & Webb,	London
Ferris & Co.,	Bristol
Foulger, S., & Son	London
Frazer & Green,	Glasgow
Gale & Co.,	London
Giles & Son,	Clifton
Goulding, Messrs.,	Cork
Gratton & Co.,	Belfast
Grimwade, Ridley,	London
Grindley & Son,	Chester
Hearon, Squire & Francis,	London
Hodgkinson, Tonge & Stead,	"
Hopkins & Williams,	"
Hovenden, R., & Sons,	"
Hunt & Co.,	Exeter
Hunt, A., & Co.,	"
Johnson, J. H. & S.,	Liverpool
Langton, W., & Co.,	London
Lynch & Co.,	"
Mander, Weaver,	Wolverhampton
Marsden & Sons,	London
Maw & Son,	"
Meggeson & Co.,	"
Mackay, John, & Co.,	Edinburgh
Morson, T., & Son,	London
Newbery & Sons,	"
Oldham, G., & Co.,	Dublin
Parsons & Richardson,	Leicester
Peake, Allen, & Co.,	Dublin
Raimes & Co.,	York
Raimes & Co.,	Edinburgh
Sang & Barker,	"
Sanger, J., & Sons,	London
Sim, James, & Co.,	Aberdeen
Smeeton, W.,	Leeds
Southall & Co.,	Birmingham
Sutton, W., & Co.,	London
Tomlinson, Hayward & Co.,	Lincoln
Treacher, Hodgkinson & Co.,	London
Westrup, J. B.,	Kensington
Westwood & Hopkins,	London
Woolley, James,	Manchester
Wyleys & Brown,	Coventry
Yates & Co.,	London

After these public statements in a Court of Equity, and subsequent confirmation by the Trade at large, no Chemist can conscientiously use or sell any other compound for Chlorodyne without committing a breach of faith, unjust to patient and physician. The value of the remedy *alone* creates the great demand.

Sold in Bottles—1s. 1½d., 2s. 9d., 4s. 6d., and 11s. Usual Discount to the Profession.

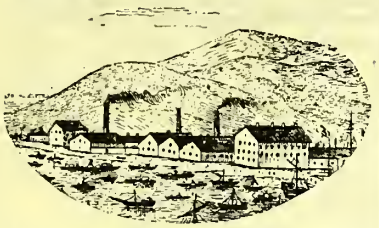
SOLE MANUFACTURER,

J. T. DAVENPORT, Pharmaceutist,

33 GREAT RUSSELL STREET, BLOOMSBURY SQUARE, LONDON.

NON-FREEZING. "NORTH STAR" BRAND.

MANUFACTORY: LOFODEN, NORWAY.



DEPOTS—SHAD THAMES, LONDON, AND AT HULL.

Telegraphic Address: "MORRHUAE LONDON."

LOFODEN COD LIVER OIL COMPY.

"The Best Guaranteed Brand in the Market."

PRESENT PRICES—

WIN. QUARTS	... ...	6	at	4/9	gal.
" "	... ...	12	"	4/6	"
" "	... ...	24	"	4/3	"

2½ per cent. for Cash, or Net 1 Month. Delivered Free London; Free on Rail Country.

Original 25-gal. Barrels on application—Specify Quantity required.

BULK.—Buyers of bulk will find **a great advantage in price** by buying **direct** from us. Being **Manufacturers** we can naturally give much better terms than those of Wholesale Houses or Dealers.

A SIGNIFICANT FACT.—About two-thirds of our customers are Bulk Buyers.

Warehouse—138 MINORIES, LONDON, E.C.

DISPENSING BOTTLES.

WEST LONDON DEPOT.

ESTABLISHED 1830.

Wholesale Merchants,

AND

CHEAPEST HOUSE IN LONDON.

JOHN P. BARRADELL & CO.

16 Paddington Green, LONDON, W.

PRICES ON APPLICATION.

HARROLINE PILLS.

The Great Harrogate Tonic.

An unfailing Cure for **Poverty of Blood, Anæmia, Chlorosis,** and every form of Debility arising therefrom.

1s. 1½d. and 2s. 9d.

WHOLESALE FROM THE

HARROLINE PILL CO.

HARROGATE.

FULL PARTICULARS & TERMS ON APPLICATION.

TRADE MARK NO. 158933.

Zirizmah

an Anti-inflammatory Liniment.

PROVISIONALLY PROTECTED.

Marvellously efficacious in Chronic Bronchitis (and Spasmodic Asthma), Sore Throat, Influenza, Cold on Chest, Abdominal Pains from Cold, Rheumatism, Gout, Lumbago, Sciatica, Cramp, &c. A preventive; never stains or weakens; no restriction.

4/6 and 2/9 net. Terms, cash with order—One dozen, 40/- and 24/- respectively, carriage paid.

Orders to private address of Proprietress—106 SHEPHERD'S BUSH ROAD, LONDON, W.

"SEQUAH'S OIL." (Regd.)

SEQUAH'S PRAIRIE FLOWER,

SEQUAH'S OIL, AND

SEQUAH'S INSTANT RELIEF

Always give satisfaction.

SEQUAH, LIMITED, 44 FARRINGDON ST., E.C.

SPECIAL NOTICE.—At the request of a large number of the Retail Trade, who are desirous of obtaining small quantities of our Goods at the lowest possible prices, we beg to inform the Trade that we have decided to supply the Goods in dozen lots, carriage paid, at our lowest terms—viz., 18/6 per dozen, Cash with Order. This offer holds good for the Home Trade only.

TRADE MARK.

"SEQUAH INDIAN PRAIRIE FLOWER."

REGISTERED.

PROVISIONAL PATENT, No. 1111.

A1 "ROLLER" MENTHOL.

The most sensible pattern yet brought out, as it won't break! 3/6 dozen carded.

The Chemist and Druggist says:—"Messrs. Shirley claim that it is so strong that if accidentally dropped it does not break—an assertion of which we have proved the correctness by repeatedly dropping the cone upon the floor from a height of 6 or 7 feet. The cone shape, in which Menthol is generally made, easily breaks, and much of it is therefore wasted, whereas the rolling-pin shape may be used right up to centre."

Above evidence is sufficient to show this is the best shape yet brought out.

	Doz.		Doz.
No. 107F.—Good 3*d*. Pedestal, 1 doz. on a card ...	1/10	No. 8P—6*d*. Boxwood, Acorn shape	3/3
No. 109.— „ 4*d*. „ 1 doz. in box ...	2/6	No. 111—1*s*. „ „	5/-
No. 117.—Monster 6*d*., 1 doz. in box	3/3	No. 40.—6*d*. „ Watch shape	3/3
No. 113R—Reversible Boxwood, 1 doz. in box ...	3/6	No. 17F—1*s*. „ Flat	5/-
No. 113P.—Printed Skittle, 1 doz. in box	3/6	No. 9CR.—1*s*. „ Reversible	4/6

1*d*. Lines, 6/- and 6/6 per gross. 2*d*. Barrel or Pedestal, 14/- per gross.

☞ £2 Parcels, assorted. Charming China Figure of "Justice" given away to assist Sale. Pretty little Glass Show Case given away with 15/- order.

CORN SOLVENT, in Actinic Bottles, fitted with Boxwood Cork and Brush, carded, 2/6 per dozen. Bottle, Cork, and Brush, empty, 1/- per dozen.

6*d*. 'Adapted.'

SOOTHING TEATS.

1*d*. Line, 3 doz. on card	7/6 gross.	3*d*., 1 doz. on card, bone mount	1/10 dozen.
2*d*. „ „	14/- „	4*d*., „ „	2/4 „
3*d*. Bone „	17/- „	6*d*., „ „	3/6 „
3*d*. Rubber „	17/- „	6*d*., Vegetable Ivory Whistle and Ring ...	3/9 „
3*d*. 'Adapted' „	2/- dozen.	6*d*. 'Fascinaters'	3/6 „
		6*d*. 'Adapted,' with Bone and Rubber parts	3/9 „

SMELLING BOTTLES, &c. 23s. Worth for 20s. SPECIAL BARGAINS.

No. 324.

No. 324.—This is a Watch shape, containing in gold-glass exact facsimile of Jubilee Sovereign ... 3/9 dozen.
No. 309.—Charming Line, hand-painted glasses and camoes in face ... ... 3/9 „
No. 328.—Flask shape, assorted colours, metal screw cap ... ... 16/- gross.
„ „ „ „ filled ... ... 21/- „
No. 313.—Globe shape, with two stoppers, quite air-tight, very prettily cut ... ... 12/6 dozen.
No. 330.—Large wide-mouth bottles, assorted colours, globe stoppers, for Lavender Salts, wonderful value ... ... 3/6 „
No. 331.—China Globe, wide mouth, for Salts, assorted decorations, colours, and gilt ... ... 4/- „
No. 316.—English Stoppered Globe, handsomely cut, for Perfume, &c., &c. ... ... 20/- „

English-made Bottles in variety. Special Lists on Application. £1 Assortment sent.

SMELLING BOTTLES IN PURSES, 4/-, 7/-, 8/- doz.; also with Chatelaine attached, 10/6 doz.

A1 TOOTH SOAP, on Easel Card, 3/6 doz. Very attractively got up.

PUFF BOXES AND TURNERY. Capital Lines from 2/3 doz. upwards. Also TURNED WOOD BOXES of every description. Fancy covered 3-inch Puff Box, 3/9 and 4/- doz.; 4-inch, 7/.

REALLY CHARMING GOODS.

SPECIAL LIST ON APPLICATION.

SPRAYS. 6*d*., 4/- doz.; 1*s*., 8/- doz.; other sizes, 13/-, 17/-, 28/-, &c. PUMPS from 18/- upwards.

ETIENNE FRÈRES' PERFUMES.

1*d*. Tubes	8/ gross.	6*d*. ½ oz. Lundborg's	3/6 doz.
2*d*. Bottles	14/ „	1*s*. Lundborg's stoppered, 1 oz.	8/ „
3*d*. Sprinklers	2/ doz.	2 oz. „ „	13/ „
(All above carded)		4 oz. „ „	24/ „
		1 oz. Fancy Bottles...	8/ „
6*d*. Ring Bottles, stoppered	4/ doz.	1 oz. Heavy Essence, cut stopper...	8/ „
6*d*. ½ oz. Essences, sprinkler	3/9 „	1*d*. Eau de Cologne	8/ gross.
6*d*. ⅛ oz. „ capped	3/6 „	3*d*. Eau de Cologne	1/10 doz.

ARTHUR W. SHIRLEY, 55 Farringdon Road, LONDON, E.C.

USEFUL DURING CHOLERA EPIDEMIC.

READY-MADE MUSTARD PLASTER (SEABURY'S).

Spread on strong cotton cloth, also on paper, ready for use at any moment, *by simply dipping the plaster into water until perfectly wet.*

Our Mustard Plaster is a decided improvement over all other manufactures, the mustard being manipulated in such a manner as to exclude all the moisture. It is always reliable, conforms quickly to the part, and when thoroughly wet does not break into pieces, as is the case with all other mustard plasters. It does not crack or peel off, and can be removed without soiling the skin or linen.

Being manufactured wholly of pure mustard, we guarantee them to be absolutely free from Croton Oil, or other dangerous substitutes that are often employed to induce intense irritation. To insure greater efficiency, and to guard against the injurious effects of dampness, we wrap our mustard plasters in waterproof paper.

MUSTARD PLASTERS SPREAD ON CLOTH.

	£	s.	d.
100 Plasters in an Oblong Decorated Tin Box, per doz.	4	4	0
10 " " Flat " "	0	10	0
6 " " Round " "	0	6	0
3 " " " " "	0	3	0
Half Yard Rolls, 6 in. wide " "	0	6	0
1 " 6 " " "	0	10	0
5 " 12 "	4	4	0

HALF STRENGTH MUSTARD PLASTERS.

On Paper Only.

10 Plasters in Flat Decorated Tin Box, per doz.	0	7	0

These Plasters are intended to meet the wants of persons of specially sensitive skins, who cannot endure the active irritation of full strength.

MUSTARD PLASTERS SPREAD ON PAPER.

	£	s.	d.
100 Plasters in an Oblong Decorated Tin Box, per doz.	3	0	0
50 " " " " "	1	10	0
10 " " Flat " "	0	7	0
Yard Rolls, 6 in. wide " "	0	7	0
5 Yard Rolls, 12 in. wide	3	0	0

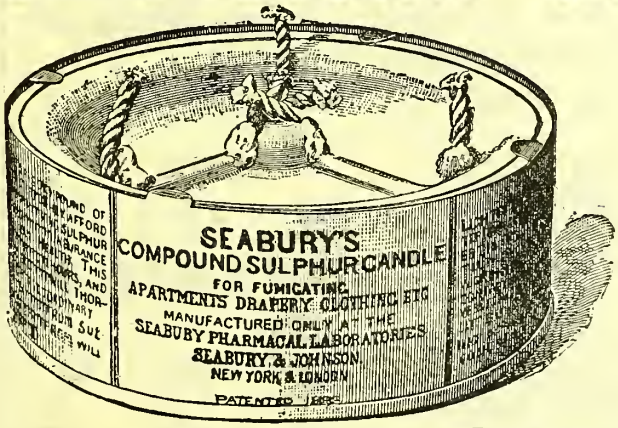
SEABURY'S MUSTARD PLASTERS ARE THE BEST.

SPECIAL NOTICE.

Mustard Plasters should always be kept in a perfectly dry place, as it is well known that mustard quickly releases its essential or medicinal properties to moisture.

SUBJECT TO DISCOUNT.

DISINFECTION BY FUMIGATION.



To meet the growing demands for convenient methods of disinfecting apartments, clothing, &c., by sulphur fumes,

NOTHING EVER DEVISED EQUALS

SEABURY'S SULPHUR CANDLES

(PATENTED 6407).

Will destroy disease germs after infectious diseases, in vacated apartments or hospital wards, also bedding, clothing, and drapery.

Will destroy noxious vapours from sewers, cesspools, &c.

Will destroy insect pests, and other vermin.

These candles afford the only safe means of burning sulphur indoors, on board ship, &c., and are used and approved by Boards of Health and Sanitary Authorities in various parts of Great Britain and America, and were used to fumigate the Royal Courts of Justice, the Committee Rooms of the House of Commons, and the War Office after the Influenza epidemic.

One candle will burn for two hours, and thoroughly disinfect a room of ordinary size. Price 8/ per dozen.

For Mild Disinfection or Deodorisation use

SEABURY'S "HYDRONAPHTHOL" PASTILLES.

(TRADE MARK.)

These Pastilles are a combination of "Hydronaphthol" with fragrant gums and perfectly harmless materials to promote combustion. Each Pastille will burn for about thirty minutes, and will not only deodorise the room in which it is burned, but will drive out flies and other insect pests. The Hydronaphthol is volatilised by the heat and recrystallises in air, being deposited on walls and draperies, whence it is subsequently taken up by the humidity of the atmosphere, thus furnishing lasting sources of disinfection. Twelve pastilles in a decorated tin box. Price 8/ per dozen.

Manufactured by SEABURY PHARMACAL LABORATORIES, New York.

SEABURY & JOHNSON, Manufacturing Chemists, **46 JEWIN STREET, LONDON, E.C.**

NEW YORK and HAMBURG.

BEWARE OF IMITATIONS.

Homœopathic Medicines have now taken their place as a part of every enterprising Chemist's Stock (and they are the most profitable of all Proprietary Stock if judiciously bought), but much depends upon the class of goods offered to ensure the confidence of the public. Keene & Ashwell combine two essential points — Quality with Good Profits. They represent the oldest-established Homœopathic Chemists in the kingdom, having amalgamated with their own the business of the late W. Headland & Co., London. This honourable position, coupled with the fact that thousands of buyers have handled their goods, makes it almost unnecessary for them to warn the trade not to be led away by imitations.

KEENE & ASHWELL

(Successors to Headland & Co., London),
Established 1835,

THE FIRST ESTABLISHED HOMŒOPATHIC CHEMISTS in the KINGDOM.

74 NEW BOND STREET, LONDON.

This Handsome Case presented Free with opening order to amount of contents.

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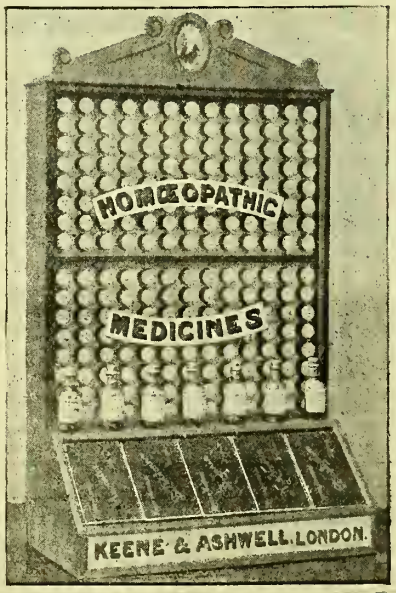
Not packed with a lot of unsaleable Proprietary Articles and Patent Medicines, therefore no unsaleable stock left on hand.

Write for Keene & Ashwell's Special Terms for 1/- Homœopathic Medicines.

IT WILL PAY YOU TO DO SO.



THE

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HAHNEMANN CASE,

Or with Desk,

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CAMPHOR PILULES,

3/6 per dozen.